THE AMERICAN GENERA OF ASILIDAE (DIPTERA):
KEYS FOR IDENTIFICATION WITH AN ATLAS OF FEMALE
SPERMATHECAE AND OTHER MORPHOLOGICAL DETAILS.
II. KEY TO THE GENERA OF DASYPOGONINAE MACQUART,
WITH DESCRIPTIONS OF NEW GENERA AND SPECIES
AND NEW SYNONYMIES¹

LOS GENEROS AMERICANOS DE ASILIDAE (DIPTERA):
CLAVES PARA SU IDENTIFICACION CON UN ATLAS DE
LAS ESPERMATECAS DE LAS HEMBRAS Y OTROS DETALLES
MORFOLOGICOS. II. CLAVE PARA LOS GENEROS
DE DASYPOGONINAE MACQUART, CON LA DESCRIPCION
DE NUEVOS GENEROS Y ESPECIES Y NUEVAS SINONIMIAS¹

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ABSTRACT

A key for the identification of the 35 American genera of Dasypogoninae Macquart is presented, with illustrations of the female spermathecae and other morphological details. The following new taxa are described: Araucopogon, gen. n. (type-species, Dasypogon cyanogaster Loew, 1851, from Chile); Macrocolus martinorum, sp. n. (typelocality: Mexico, Guerrero, Iguala); Apolastauroides kamakusa, gen. n., sp. n. (type-locality: Guyana, Kamakusa); Neodioguites currerat, sp. n. (type-locality: Brasil, Espirito Santo, Santa Teresa) and Neodiogmites tauauna, sp. n. (type-locality: Brazil, Espirito Santo, Itapina). The following new synonymies are proposed: of Arawpogon Carrera, 1949 and Oberon Carrera & Papavero, 1962, with Saropogon Loew, 1847; of Caenarolia Thomson, 1869, with Allopogon Schiner, 1866; of Lastauronia Carrera, 1949 with Lastaurina Curran, 1934; of Lastaurax Carrera, 1949 and Lastauroides Carrera, 1949, with Neodiogmites Carrera, 1949; and finally of Lastauropsis Carrera, 1949, with Lastaurus Loew,

Keywords: Insecta, Taxonomy, America, Keys, Asilidae, Dasypogoninae.

RESUMEN

Se presenta una clave para la identificación de los 35 géneros americanos de Dasypogoninae Macquart, con ilustraciones de espermatecas y otros detalles morfológicos. Los siguientes nuevos taxones son descritos: Araucopogon, gen. n. (especie-tipo), Dasypogon cyanogaster Loew, 1851, de Chile); Macrocolus martinorum, sp. n. (localidadtipo: México, Guerrero, Iguala); Apolastauroides kamakusa, gen. n., sp. n. (localidad-tipo: Guyana, Kamakusa); Neodiogmites carrerai, sp. n. (localidad-tipo: Brasil, Espirito Santo, Santa Teresa) v Neodiogmites tauauna, sp. n. (localidad-tipo: Brasil, Espírito Santo, Itapina). Se proponen las siguientes nuevas sinonimias: de Aratopogan Carrera, 1949 y Oberon Carrera & Papavero, 1962, con Saropogon Loew, 1847; de Caenarolia Thomson, 1869, con Allopogon Schiner, 1866; de Lastauronia Carrera, 1949, con Lastaurina Curran, 1934; de Lastaurax Carrera y Lastauroides Carrera, 1949, con Neodiogmites Carrera, 1949; v finalmente la de Lastauropsis Carrera, 1949, con Lastaurus Loew, 1851.

Palabras claves: Insecta, Taxonomía, América, Claves, Asilidae, Dasypogoninae.

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INTRODUCTION

This is the part II of a series of papers intended as a preliminary effort to define the American genera of Asilidae, describing the new genera, preparatory to the elaboration of a catalogue of Neotropical species for inclusion in the forthcoming World Catalogue of Flies, now being prepared by the U.S. Department of Agriculture and U.S. National Museum of Natural History, Washington D.C.

The material used in this series belongs to the Museu de Zoologia da Universidade de São Paulo, Brasil, and to the Departamento de Zoología, Universidad de Concepción, Chile.

The methodology employed in the dissection and preservation of the male terminalia, female spermathecae and other morphological details is the same employed by Artigas (1971).

We have adopted here a classification of the Asilidae in 8 subfamilies. The classification is, as all classifications, purely artificial and designed only to facilitate identification. It follows, basically, the classification adopted by Papavero (1973), with the elevation of the Stichopogoninae to subfamily rank, and the Apocleinae Papavero are included within the Asilidae. The Leptogastrinae are herein considered as a subfamily of Asilidae. In morphology and terminology we have followed J.F. McAlpine (1981).

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SUBFAMILY DASYPOGONINAE MACQUART

Dasypogonites Macquart 1838: 14 (1839: 130).

Key to the American tribes and genera

1. Antenna with three flagellomeres, the second minute (Figs. 4, 14, 18). Fore tibial spur weak, sigmoid (Figs. 6, 15). First tarsomere of fore leg never with basal flange. All wing cells open (Fig. 9), although sometimes cell cup almost cosed at wing margin. Anatergite bare. Hypandrium free from epandrium. Female tergite 10 Antenna with one or two flagellomeres. Other combinations of characters 11 Pulvilli present, even if reduced (in Theromyia Williston pulvilli one-fourth length of 2(1). claws - Fig. 57) 3 First tarsomere of fore leg without basal denticles (Fig. 15) (except in Alvarenga 3(2). Carrera, with several series of peg-like structures (Figs. 6, 7), but not with denticles) 4 First tarsomere of fore leg with a series of evident, small, black denticles basally 8 Mystax dense, occupying entire face, bristles longer at lower margin (Fig. 2) ... 5 4(3). Mystax thin, reduced to subcranial margin, with at most sparse hairs above mystax, and decreasing in density towards base of antennae when present 6 Mesonotum strongly arched and compressed medianly, bearing a strong mane of 5(4). long, dense, erect hairs. Third antennal flagellomere thin and slender. Male terminalia and aedeagus as in Figs. 23-28. Spermathecae as in Fig. 22 (Canada, (Figs. 22-28)

Mesonotum also strongly arched, not compressed medianly and without a mane, hairs on mesonotum decumbent (Fig. 1). Third antennal flagellomere strongly flattened laterally and as wide as first flagellomere (Fig. 4). Female terminalia and

	spermathecae as in Figs. 10-13 (Brazil, Argentina)	
6(4)	Male abdomen with only six visible segments, the last two (5-6) widened, flat, spatulate, covered with dense silvery pollen (Fig. 42-43), the male terminalia usually hidden beneath these segments. Wing, in both sexes, spotted brown at crossveins and bifurcations (pattern pale in male of <i>N. pictus</i>), or brown almost to apex, including bifurcation of R ₄ and R ₅ . Male terminalia and aedeagus as in Figs. 44-48. Spermathecae as in Fig. 50 (USA s. to Ecuador) Nicocles Jaennicke, 1867 (Figs. 42-48, 50)	
7(6)	Male abdomen with seven visible segments, the last two (6-7) not modified as above. Wing hyaline or basal two-thirds brown, not spotted as above, or entirely infuscated Both male and female with a noticeable excision at apex of middle tibia, bearing two short spines (one longer) (Fig. 16). First tarsomere of hind leg with a row of five to nine spines of similar length. Epandrial lobes characteristically expanded, narrowed basally and then flap-like (Fig. 17). Spermathecae as in Fig. 21 (Brazil: Minas Gerais, Rio de Janeiro, São Paulo)	7
	Middle tibia not excised at apex, with only two apical bristles. First tarsomere of hind leg without row of spines. Epandrial lobes never as above. Male aedeagus and terminalia as in Figs. 29-33. Spermathecae as in Figs. 34-36 (USA and Mexico s. to Ecuador, Peru, and Argentina)	
8(3)	Anterior tarsus lengthened, twice as long as fore tibia. Face strongly produced (Brazil: Minas Gerais)	
9(8)	Anterior tarsus of usual length. Face not as above Pulvilli as long as claws. Male terminalia extremely developed (Fig. 19), aedeagus very long, exposed, longer than height of terminalia. Spermathecae as in Fig. 20 (Panama and South America, but not in Chile) Aphamartania Schiner, 1866 (Figs. 18-20) Pulvilli reduced, one-fourth length of claws. Male terminalia also developed, but aedeagus short, hidden inside the terminalia. Male terminalia and aedeagus as in Figs. 52-56. Spermathecae: see Artigas (1971: figs. 19, 22). (Chile)	
10(2)	Dorsocentral bristles erect and extending to mesonotal declivity. Face with a dense fringe of long, adjacent, tectiform, drooping bristles, reaching nearly up to base of antennae. Scape and pedicel with stout, long, blunt bristles. Diameter of all femora uniform. Spermathecae as in Fig. 51 (USA: Texas, California, Washington) Omninablautus Pritchard, 1935 (Fig. 51) Dorsocentral bristles recumbent when present, confined to mesonotal declivity. Mystax composed of hair-like bristles, never as above. Scape and pedicel without long, stiff, ventral bristles. Diameter of hind femora 1,3-1,5 times diameter of middle femora. Male terminalia and aedeagus as in Figs. 37-41. Spermathecae as in Fig. 49 (USA: Arizona, California, Colorado; Mexico: Sonora, Zacatecas)	
1(1)	Males (Figs. 37-41, 49) Males	12
12(11)	Epandrial lobes fused into a single plate, which is fused to the hipandrium, i. e., segment 9 forms a complete ring. Antenna with one or two flagellomeres. Wing	ıc

	with cells r ₁ , r ₅ , m ₃ and cup open or closed. Anatergite bare or pilose. Tribe MEGAPODINI Carrera
13(12)	but in no case fused to hypandrium \dots 18 Cell r_1 open. Anatergite bare, only micropubescent (if anatergite pilose, the hairs located <i>under</i> the callosity). Hypandrium short and mammiform, or prolonged
	tongue-like between the gonocoxites
14(13)	Second antennal flagellomere present (Fig. 59) (if absent, a minute spine on dorsum of first flagellomere present, either medianly or subapically placed. Fig. 58).
	Posterior margin of tergite 1 with "bullae"
	Senobasis Macquart, 1838 (Figs. 63, 87-93, 96)
15(14)	Two flagellomeres present (Fig. 59). Male terminalia and aedeagus: see Artigas (1970: Figs. 175, 176, 179, 180). Spermathecae: see Artigas (1971: Figs. 12-13) (Chile)
	Second flagellomere absent, a minute spine present on dorsum of first flagellomere, either medianly or subaplically placed (Fig. 58). Male terminalia and aedeagus as in Figs. 65-69. Spermathecae as in Fig. 94 (Guiano-Brazilian subregion)
16(13)	Face strongly prominent, triangular in lateral view (Fig. 60)
17(16)	(Figs. 61, 82-86, 97) Face extremely produced, with a central, triangular, yellow pollinose area, almost bare of hairs. Second antennal flagellomere well developed. From with longitudinal and its Lagrange department and related to the product of
	al sulci. Legs moderately strong and robust. Male terminalia and aedeagus as in Figs. 76-81. Spermathecae: see Artigas (1971: Fig. 72) (Peru, Chile)
	(Figs. 76-81) Face not so produced, without the pollinose central triangle. Palpi very elongate, surpassing tip of face in lateral view. Second flagellomere partially fused to first flagellomere. Frons with lateral "bullae". Male terminalia and aedeagus as in Figs. 71-75. Spermathecae as in Fig. 95 (Guiano-Brazilian subregion)
	Megapoda Macquart, 1834 (Figs. 60, 70-75, 95)
18(12)	closed, veins CuA ₁ and M ₃ meet only at wing margin). First flagellomere normally without small bristles on lower dorsal surface. Second flagellomere present or
	absent. Cell r_1 open. Tribe DASYPOGONINI Macquart
	open or closed. First antennal flagellomere with small bristles on lower dorsal surface (if these bristles absent /Megapodini/ then anatergite pilose)

19(18)	Pulvilli absent (Fig. 103). Antennal stylus variable (see Wilcox, 1967: Fig. 1). Male terminalia and aedeagus as in Figs. 138-142. Spermathecae as in Fig. 143 (Nearctic)
	Pulvilli present (Figs. 103, 138-143)
20(19)	Second antennal flagellomere absent. First flagellomere with an apical or dorsal spine (Fig. 98)
21(20)	First flagellomere with a dorsal incision near its middle or apical third bearing a spine (Fig. 104). Abdomen notoriously punctate. Male terminalia and aedeagus as in Figs. 151-155. Spermathecae as in Fig. 156 (USA, Mexico)
22(21)	First flagellomere always with a minute apical spine 22 Face concave (Fig. 124) 23 Face flat (Fig. 101) 24
23(22)	Scape and pedicel subequal in length. Marginal scutellar bristles present. Body pollinose. Male terminalia and aedeagus as in Figs. 105-110. Spermathecae as in Fig. 116 (Argentina)
	Scape two or three times length of pedicel (Fig. 125) Marginal scutellar bristles absent (except in M. martinorum, sp. n.). Body bare, mostly shining. Male terminalia and aedeagus as in Figs. 126, 128-132. Spermathecae as in Fig. 127 (Mexico to s. Brazil)
24(22)	Face exceptionally high, the antennae arising near vertex (Fig. 101). Scape twice as long as pedicel. First tarsomere of fore leg without basal denticles. Marginal scutellar bristles present (Brazil: Pará)
	Face short, never as above. Scape and pedicel subequal in length. First tarsomere of fore leg with basal denticles. Marginal scutellar bristles absent (Brazil: Amazonas)
25(20)	At least three pairs of presutural dorsocentral bristles present
26(25)	Lower 2/3 of face with a pronunced haired swelling or gibbosity. Presutural dorso-centrals extremely developed, semi-erect (Western Nearctic)
	Face plane or slightly prominent at subcranial margin. Presutural dorsocentral bristles short, recumbent (Chile)
27(26)	Abdomen slender, as long as five times width of first tergite. No more than three pairs of well developed presutural dorsocentral bristles. Male terminalia and aedeagus as in Figs. 133-137. Spermathecae: see Artigas (1971: Fig. 18) (Chile)
	(Figs. 133-137) Abdomen as broad as mesonotum. Dorsocentral bristles reaching anterior margin of mesonotum. Male terminalia and aedeagus as in Figs. 112-115. Spermathecae as in Fig. 117 (Chile)

28(25)	Face short, produced in lateral view and triangular, the subcranial margin wider than width of frons (Figs. 99-100). Male tergites 5-6 with a cluster of squamiform setae laterally. Male terminalia and aedeagus as in Figs. 119-123. Spermathecae as in Fig. 118 (Brazil)
	Face never as above. Subcranial margin subequal to width of frons or shorter. No such squamiform setae present on male tergites 5-6. Male terminalia and aedeagus as in Figs. 146-150. Spermathecae as in Figs. 144-145 (Worldwide)
29(18)	Anatergite with erect hairs. Females with seven visible tergites. Female terminalia begins with segment 8. In males, hypandrium fused to epandrium, forming a complete ring; hypandrium short and wide, strongly concave medianly. Tribe MEGAPODINI Carrera, part. (Go back to couplet 16)
30(29)	Anatergite bare. Female with eight visible tergites. Male hypandrium variable .30 Second flagellomere present (if absent, spine placed on dorsum of first flagellomere, either medianly or subapically). In males, hypandrium fused to epandrium,
	forming a complete ring, and hypandrium tongue-like, prolonged between gono-contes. Posterior margin of tergite 1 with "bullae". Cells m ₃ and cup closed and petionate. Tribe MEGAPODINI Carrera, part. (Go back to couplet 15) Second flagellomere always absent, spine always on tip of first flagellomere31
31(30)	
32(31)	Palpus two-segmented. Female tergite 10 with spines. In males, hypandrium free from epandrium. Tribe LASTAURINI Papavero
99/99)	posterior margin of humeri, becoming longer towards scutellum
33(32)	First tarsomere of hind leg slender, narrower than its tibia and almost a long as or longer than tarsomeres 2-4 together (Figs. 157-158). Tergites 2-4 at least with patches of more or less long, light hairs, laterally and posteriorly34 Tarsomeres (and also normally tibiae) inflated. First tarsomere of hind leg subequal in width to its tibia, relatively short and thick, subequal to or longer than tarsomeres 2-3 (Figs. 159-160). Normally very hirsute flies, sometimes with hair tufts only in
34(33)	tergites 1-4
35(33)	Cell r _I closed and petiolate (Guyana)

	Dorsocentral rows incomplete; anterior dorsocentrals, if present, hair-like. Predominantly black species, with predominantly black vestiture. Sometimes abdomen and mesonotum with patches of yellow or rufous hairs. Legs always black. Mystax entirely black, entirely yellow, or mixed white and black. Male terminalia and aedeagus as in Figs. 190-194. Spermathecae as in Fig. 207 (Neotropical)
	(Figs. 160-161, 190-194, 207)
36(32)	Marginal scutellar bristles present
37(36)	Face narrower than width of an eye (Fig. 162). Pulvilli of hind leg reaching at least half length of claw (Fig. 163). Male terminalia and aedeagus as in Figs. 173-177. Spermathecae as in Figs. 197-204 (Americas)
	(Figs. 162-163, 173-177, 197-204)
	Face as wide as or wider than width of an eye (Fig. 164). Pulvilli of hind leg half length of claw, or shorter, to almost absent (Fig. 165). Male aedeagus as in Figs. 166-167. Spermathecae as in Fig. 195 (Brazil, Argentina) Allopogon Schiner, 1866 (Figs. 164-167, 195)
38(36)	Prosternum dissociated from proepisternum, separated by membranous area (Fig. 215). Very large, robust flies. Male terminalia and aedeagus as in Figs. 210-214. Spermathecae as in Fig. 208 (Brazil, Argentina)
	(Figs. 208-215)
	Prosternum fused to proepisternum, forming a completering (Fig. 216). Medium- sized flies. Male terminalia and aedeagus as in Figs. 168-172. Spermathecae as in
	Fig. 196 (Neotropical)

Genus Allopogon Schiner

(Figs. 164-167, 195)

Allopogon Schiner, 1886: 670. Type-species, Dasypogon vittatus Wiedemann (orig. des.) Caenarolia (Thomson, 1869: 470. Type-species, longipennis Thomson (mon.) = equestris (Wiedemann). N. SYN.

Caenorolia Williston, 1891: 74, error.

The known species of this genus can be identified as follows:

1.	At least one pair (commonly 3 pairs present) of very long, developed dorsocentral bristles on posterior slope of mesonotum, as long as 2/3 at least length of marginal scutellar bristles. Pulvilli of hind leg from 1/2 to 1/3 length of claws, or extremely reduced, almost absent Dorsocentrals on posterior slope of mesonotum absent or short, much shorter than length of marginal scutellar bristles. Pulvilli of hind leg from 1/2 to 1/3 length of	2
	claws	
2(1)	Pulvilli of hind leg from 1/2 to 1/3 length of claw	
	Pulvilli of hind leg almost absent	5
3(2)	Face with pile from base of antennae to subcranial margin. The short pilosity of legs	
	black. Abdominal tergites with narrow yellow hind margin and on each side a narrow longitudinal stripe, at center with a stripe of golden-yellow pollinosity	4
	Face without hairs between mystax and base of antennae. Legs entirely covered by	

dense, short, thick, white hairs. Abdomen grey pollinose and as seen from above

- only posterior margins of tergites intensely grev pollinose (Brazil: northeastern to southern states; Uruguay, Argentina) tessellatus (Wiedemann)

Allopogon anomalus (Carrera), n. comb.

Diogmites anomalus Carrera, 1947: 40. Typelocality: Brazil, São Paulo, São Paulo, Ipiranga. Type, MZUSP. Refs. Carrera, 1949: 68; 1953: 186, Fig. 10 (abdomen).

In addition to the type series, we have examined one specimen from BRAZIL, São Paulo: Magda (Faz. São Francisco), xii. 1957 (J. Lane). Preys captured with this species are: Hymenoptera (Eumenidae, Sphecidae Ichneumonidae); Coleoptera (Scarabaeidae:

Onthophagus hirculus; Cerambycidae: Ancylocera cardinalis): Diptera (Asilidae: Atoniomyia scalarata); Hemiptera.

Allopogon argyrocinctus (Schiner), n. comb.

Saropogon argyrocinctus Schiner, 1867: 370. Type-locality: "Brazil". Type, WIEN.

Allopogon dimidiatus Curran, 1935: 4. Type: locality: Brazil, Rio de Janeiro. Type, AMNH. Ref. - Carrera, 1949: 36 (syn.). Caenarolia argyrocincta; Carrera, 1949: 36. Material examined: BRAZIL, Rio de

Janeiro: Itatiaia, 500-1000 m, iv. 1945 (Barretto), 1 male, 1 female; Tinguá, iv. 1940, 1 male; Rio de Janeiro, xi? (H.H. Smith), paratype male of dimidiatus; Deodoro, x. 1955 (Zikán), 1 male. All in MZUSP.

Allopogon basalis Curran

Allopogon basalis Curran, 1935: 3. Typelocality: Brazil, Minas Gerais, Pirapora. Type, AMNH.

Caenarolia basalis; Carrera, 1949: 37.

Allopogon castigans (Walker), n. comb.

Dasypogon castigans Walker, 1851: 89. Type locality: "South America". Type, BMNH (hind tarsi missing).

Caenarolia spitzi Carrera, 1949: 39. Typelocality: Brazil, Minas Gerais, Araguari, Type. MZUSP. n. syn.

Diogmites castigans; Papavero, 1971: 20 (wrong generic assignment).

Allopogon equestris (Wiedemann), n. comb.

Dasypogon equestris Wiedemann, 1828: 392. Type-locality: "Brazil". Syntypes (5 spec.), WIEN.

Caenarolia longipennis Thompson, 1869: 471. Type-locality: Brazil, Rio de Janeiro. Type, Stockholm. n. syn.

Allopogon necans (Wiedemann)

Dasypogon necans Wiedemann, 1828: 392. Type-locality: "Brazil". Type, WIEN.

Allopogon necans; Schiner, 1866: 678.

Lochites asiloides Bigot, 1878: 426. Typelocality: "Brazil". Type, OXF. Ref. - Papavero, 1971: 20 (syn.).

Senobasis asiloides; Williston, 1891: 75 (cat.). Blepharepium asiloides; Hull, 1962: 233.

Allopogon tessellatus (Wiedemann)

Dasypogon tessellatus Wiedemann, 1828: 390. Type-locality: Uruguay, Montevideo, Type, WIEN.

Allopogon tesselatus; Schiner, 1866: 678.

Deromyia weyenberghi Wulp, 1882: 93. Typelocality: "Argentina". Syntypes, AMST. n. syn.

Allopogon weyenberghi; Carrera, 1949: 45.

Material examined. Brazil, Ceará: Quixeramobim, x. 1940 (Shannon & Alves), 1 male (with Protonectarina sylveirae Sauss. as prey), 1 female (with Brachygastra lecheguana Latr. as prey), and 1 male and 1 female (with Polybia ignobilis Hal); 1 female without prey; Rio Grande do Norte: Natal, iii. 1939 (Alves), 2 males; Pernambuco: Base da Serra Negra, v. 1960 (Machado), 1 male; Espírito Santo: Córrego Itá, x. 1954 (Zikán), 3 males, 1 female; Rio Grande do Sul: no data, 1 male; Pelotas, i. 1956, ii. 1963, xii. 1964, i. 1965 (Biezanko), 5 males, 1 female; Santa Maria, 1926 (Ronna), 1 female.

Uruguay: Paysandú, iii. 1953 (Malinolo), 1 male.

Argentina: La Rioja, ii. 1958 (no coll.), 2 females; *Tucumán*: Forestal, iv. 1948 (Arias), 1 male.

All in MZUSP.

Allopogon vittatus (Wiedemann)

Dasypogon vittatus Wiedemann, 1828; 389. Type-locality: Uruguay, Montevideo, Type, WIEN.

Allopogon vittatus; Schiner, 1866: 678.

Dasypogon longiungulatus Macquart, 1838: 36 (1839: 152). Type-locality: "Brésil, Missions" (=western part of the State of Rio Grande do Sul). Type, MNHN (as longiunguiculatus (sic) in Museum's catalogue of types!).

Dasypogon annulitarsis Rondani, 1868: 9. Typelocality: Argentina, Santa Fe, Córdoba, Rio Cuarto and Rosario. Syntypes? NAPLES.

Dasypogon gracilis Bigot, 1878: 418. Typelocality: Uruguay, Montevideo. Syntypes, OXF.

Material examined. Brazil, *Santa Catarina*: Três Barras, vi. 1949 (Carvalho), 1 female; *Rio Grande do Sul*: Pelotas, ii. 1963 (Biezanko), 1 male (with Lepidoptera as prey).

Uruguay: *Treinta y Tres*: Arroyo Avestruz, iii. 1959 (Scravice), 1 female; *Florida*: ii. 1954 (no col..), 2 males, 1 female; Rio Yi, iii. 1959 (Monné), 1 female; *Rivadavia*: C. Batovi, iv. 1954 (Silveira & Carbonell), 1 female.

Argentina: *Buenos Aires*: no data (Bosq), 2 males, 2 females; Sierra Ventana (Dirings), 2 females; Flores, iii. 1912, 2 females; San Isidro, ii. 1952 (Foerster), 1 female; Tandil, 200-

250 m, xii. 1949, 2 females; xi-xii. 1951 (Foerster), 2 females; ii. 1954 (Dirings), 2 males; Zelaya, xii. 1946 (Hepper), 1 male, 3 females. All in MZUSP.

Genus Apolastauroides, gen. n.

Face 1/5 total width of head, wider at subcranial margin, narrower above, below antennae, due to an expansion of the eyes, nearly flat, scarcely prominent in profile, slightly bulging at subcranial margin and concave at middle. Mystax with some 10 relatively short bristles, in a singles row, restricted to subcranial margin. Subcranial cavity strongly oblique, almost as long as face. Palpus twosegmented. Proboscis longer than height of an eye, slender, with median dorsal keel occupying its apical 3/4, with long ventro-basal hairs. Scape and pedicel subequal in length, with short bristles both on dorsal and ventral margins; first flagellomere spindle-shaped, 1.2 times combined length of scape and pedicel. Frons with divergent sides and short, strong bristles laterally. Ocellar tubercle with 3 pairs of bristles. Occiput nearly flat, pollinose, with orbital and superior bristles strongs.

Pronotum with long, fine hairs and strong bristles. Mesonotum moderately convex; 3-4 humerals, 3 prealars, 3 supraalars and 3-4 postalars, long and strong. Dorsocentral row beginning at level of posterior margin of humeri, the bristles becoming longer towards scutellum; in addition, moderately bristly hairs as long as scape, more numerous on anterior and lateral margins of mesonotum. Scutellum flat, pollinose, with 2 pairs of apical bristles. Katatergite with micropubescent callosities. Pleura pollinose, anepisternum and katepisternum with long and slender bristles and hairs.

Legs: coxae pollinose, the fore and middle pairs with strong and dense hairs and bristles; femora and tibiae moderately thick; pilosity moderate and long; tibial bristles long and slender.

Wing: cell r₁ closed and petiolate (unique case among the Dasypogoninae!); cell m₃ closed and petiolate; cell cup closed at wing margin. Ambient vein complete.

Abdomen: tergite 1 with strong lateral bristles and patch of erect hairs. Tergites 2-7 with soft, recumbent pile lateroposteriorly, polli-

nose on lateroposterior margins; venter with long, sparse, erect, fine hairs.

Type-species: Apolastauroides kamakusa, sp. n.

Apolastauroides kamakusa, sp. n.

Male. Body length, 13 mm; wing length, 9 mm

Face and frons yellow pollinose; occiput more or less sparsely silvery-grey pollinose. Mystax yellow. Proboscis black, with yellow hairs below. Palpi black with black bristles. Scape and pedicel brown, with black bristles. First flagellomere black. Beard yellowishwhite. Orbital, superior and frontal bristles black.

Thorax black. Humeri and postalar calli reddish-brown. Mesonotum black, lateral margins densely yellow-grey pollinose; two more or less wide longitudinal pollinose stripes along dorsocentral row divide the black ground color of the mesonotum into 3 longitudinal spots; hairs and bristles black. Pleura yellow-grey pollinose; hairs yellow. Anatergite with yellow hairs and black bristles. Scutellum yellow-grey pollinose. Katatergite subshining black, callosities greyish micropubescent.

Wing light yellowish-brown, sparsely microvillose; veins brown. Halteres orange-brown.

Legs: coxae black, yellow-grey pollinose, bristles and hairs yellow; femora yellowish-brown ventrally, dark brown above, in variable extensions; fore and middle tibiae very dark brown, becoming lighter, yellowish-brown, on basal half or more of posteroventral surface; hind tibiae entirely very dark brown; all tarsi very dark brown to blackish, pulvilli yellowish-brown; claws black; pilosity yellow and black, dense; short pilosity of posterior surface of tibiae and ventral surface of tarsi yellow; bristles long and black.

Abdomen black, narrow hind margin of tergites dark reddish-brown; pilosity long, fine, yellow; terminalia black, with black bristles and yellowish hairs.

Holotype male, Guyana: Kamakusa, no date (H. Lang), in MZUSP.

Genus Araucopogon, gen. n. (Figs. 111-115, 117)

Face in frontal view slightly narrower than width of an eye and subequal in height and width; at subcranial margin slightly wider than width of frons. Face in lateral view flat to subconcave. Mystax reduced to subcranial margin, with 5-7 rows of strong bristles, the lower ones reaching tip of proboscis. Frons with numerous lateral bristles. Ocellar bristles long, anterior ones proclinate, the others divaricate. Antennae implanted at level of upper third of eye, scape longer than pedicel, both with bristles, the former with bristles similar to those on frons. First flagellomere long, longer than combined length of scape and pedicel, subcompressed, dorsal and ventral margins parallel; second flagellomere short, depressed, 1/8 lenght of first, excavated at apex with a minute apical spine. Proboscis subcylindrical, attenuate towards apex, with dorsal keel which does not reach the tip; proboscis shorter than antenna. Palpus two-segmented.

Prosternum free from proepisternum. Mesonotum nearly flattened. Dorsocentral bristles extending to anterior slope of mesonotum, reclinate. Most of mesonotal disc glabrous. Disc of scutellum bare, 4 pairs of marginal bristles. Anepisternum bare, katepisternum with strong, long bristles.

Legs with front tibial spur well developed and a group of denticles on basal ventral area of fore basitarsus. Front and middle tibiae similar. Fore basitarsus longer than middle basitarsus. Claws acute. Pulvilli reach tip of claws.

Wing: cell r_1 open, m_3 open, cup narrowly open at wing margin.

Abdomen as wide as mesonotum, metallic, tapering towards apex, with 7 visible tergites in male and 8 in females. Male terminalia (Figs. 112-115) rotated 40-90°; hypandrium triangular, free from epandrium, epandrial lobes separated, with divergent tips; aedeagus straight, with small dorsal and a single, longer, ventral process at apex and dorsal margins conspicuously toothed, with two preapical ventral denticles, one at each side. Female terminalia with spines. Spermathecae with a short common duct (Fig. 117), expulsory duct with a crown of hard spine-like processes at base, valvules incospicuous, capsular ducts fine, soft, filiform, the terminal 1/3 forming a hard spiral with three whorls, the tips gently enlarged.

Length: 8-12 mm.

Type-species: Dasypogon (Saropogon) cyanogaster Loew, 1851 (from Chile).

Genus Lastaurina Curran

(Figs. 159, 178-182, 205)

Lastaurina Curran, 1934 a: 171. Type-species. Dasypogon ardens Wiedemann (Curran, 1935: 5). Lastauronia Carrera, 1949: 104. Type-species, travassosi Carrera (orig. des.). n. syn.

The three species included herein may be identified as follows:

Lastaurina ardens (Wiedemann)

Dasypogon ardens Wiedemann, 1828: 391. Type-locality: "Brazil". Type, BERLIN. Lastaurus ardens; Schiner, 1866: 678.

Lastaurina ardens; Curran, 1935: 5.

Material examined. BRAZ1L, São Paulo: São Bernardo, iii.1927 (Spitz), 1 female; São Caetano, iii.1926 (Spitz), 1 female; Mato Grosso: Fazenda Murtinho, xii.1929 (Spitz), 1 male, 1 female; Paraná: Ponta Grossa, i.1944 (Hatschbach), 1 male; Rio Grande do Sul: Guarani, i.1932 (Biezanko), 1 female; Pelotas, iv.1956, iii.1964 (Biezanko), 1 male, 1 female.

Argentina, *Buenos Aires*: no data (Bosq), 1 female; Tandil, 200 m, xi-xii.1951 (Foerster), 1 male; do., 250 m, ii.1954 (Dirings), 2 males, 1 female; Puente Alsina, i.1914, 1 female.

All in MZUSP.

Lastaurina biezankoi (Carrera & Papavero), n. comb.

Lastauropsis biezankoi Carrera & Papavero, 1962: 50. Type-locality: Brazil, Rio de Janeiro, Duque de Caxias, São Bento. Type, MZUSP.

In addition to the type, we have examined two more specimens, from BRAZIL, *Espírito Santo*: Guarapari, ix.1960 (Alvarenga), Ifemale; *Rio de Janeiro*: Guarayiba, i. 1956 (Guimarães), 1 male.

Lastaurina travassosi (Carrera), n. comb.

Lastauronia travassosi Carrera, 1949: 105. Type-locality: Brazil, São Paulo, São Paulo. Type. MZUSP.

Genus Lastaurus Loew (Figs. 160-161, 190-194, 207)

Dasypogon, subg. Lastaurus Loew, 1851: 11. Type. species, anthracinus Loew (orig. des.) = lugubris (Macquart).

Morimna Walker, 1851: 104. Type-species, mallophorides Walker (mon.) = fallax (Macauset)

Lastauropsis Carrera, 1949: 107. Type-species, villosus Carrera (orig. des.). n. syn.

The following species belong here: alticola Carrera & Machado-Allison, 1968:

500. Type-locality: Bolivia, Cochabamba, Tiraque, 3.200 m. Type, BASEL (the female, from Argentina, Jujuy, does not belong to this species).

crassitarsis (Macquart), 1838: 36 (1839: 152) (Dasypogon). Type-locality: "Brazil". Type,

MNHN. n. comb.

atratus Bigot, 1878: 415 (Diognites). Typelocality: "Brazil". Type, OXF.

fallax (Macquart), 1846: 191 (1846: 63), pl. 7, fig. 5 (habitus) (Dasypogon). Type-locality: "Nouvelle Grenade". Type, OXF.

bombimorpha Rondani, 1850: 368/ Dasipogon (sic)/. Type-locality: "America Equatoria-

le". Type lost.

mutabilis Loew, 1851: 12. Type-locality:

"Colombia". Type, BERLIN.

mallophorides Walker, 1851: 104, pl. 6, fig. 2 (habitus), 22 (head) (Morimna). Typelocality: "Colombia". Type, BMNH. mallophoroides, error or emend.

flavipellitus Enderlein, 1914: 173 (as var.). Type-locality: Ecuador, Balzapamba, Santa

Inez and Baños. Syntypes?

lugubris (Macquart), 1846: 192 (1846: 64) (Dasypogon). Type-locality: "Nouvelle Grenade". Type?

anthracinus Loew, 1851: 12 (Dasypogon). Type-locality: "Mexico". Type, BERLIN.

robustus Carrera, 1949: 93, figs. 24 (habitus), 57 (head), 103 (palpus), 67 (antenna). Type-locality: Brazil, Minas Gerais, Araguari, Type, MZUSP.

tricolor Carrera & Machado-Allison, 1968: 497. Type-locality: Argentina, Tucumán,

Araoz. Type, 1ML.

villosus (Carrera), 1949: 108, figs. 28 (habitus), 54 (head), 107 (palpus), 77 (antenna) (Lastauropsis). Type-locality: Brazil, Paraná, Rio Negro. Type, MZUSP. n. comb.

This genus needs a future revision, based on more extensive collections. Carrera & Machado-Allison (1968) published on this genus, but misidentified most species and associated erroneously males and females. Three species-groups seem to exist:

1. A group characterized by the completely black mystax, ranging from Mexico to Bolivia and Argentina, along the Andes: *fallax*, *alticola*, *lugubris*, and probably a new species (misidentified as mallophorides by Carrera & Machado-Allison):

- 2. A group with mixed white and black bristles; a relatively bare species for this genus: *crassitarsis*, restricted to southeastern and southern Brazil.
- 3. A group with entirely yellow mystax, ranging from southeastern and southern Brazil to northern Argentina and Bolivia: *robustus*,

tricolor, and *villosus*, and a probable new species (misidentified as the female of *alticola* by Carrera & Machado-Allison).

We have accepted, for convenience, the synonymies and distributions offered by Carrera & Machado-Allison, until a revisión clarifies the situation of this genus.

Genus Macrocolus Engel

(Figs. 124-132)

Macrocolus Engel, 1930: 470. Type-species, bicolor Engel (orig. des., as gen. n., sp. n.). The 4 known species can be thus distinguished:

1.	Wing entirely infuscated. All legs black	2
	Wing infuscated only in certain areas. Legs mostly reddish	3
2(1).	Mystax black. Scape elongated. Thorax mostly reddish (Brazil: São Paulo; Bolivia,	
	Paraguay) bicolor Engel	
	Mystax white. Scape subequal to pedicel. Thorax black (Mexico: Guerrero)	
	martinorum, sp. n.	
3(1).	Wing infuscated along vein of basal 3/4, apex clear. Fore and middle legs reddish,	
	hind legs darker (Brazil: Minas Gerais) barrettoi Carrera	
	Wing slightly infuscated only at vertex and hind margin. All legs reddish, the black	

tarsi excepted (Brazil: São Paulo).....rubripes Carrera & Papavero

Macrocolus martinorum, sp. n.

Total length: 9 mm; wing length: 7 mm.

Male. Face with silvery pile at sides, center shining black to base of antennae; frons and ocellarium partly covered with silvery micropilosity, frontal hairs and bristles black. Mystax reduced to 1-2 files of straight, strong. white bristles directed forward. Antennae black, with scattered silvery micropilosity; scape slightly longer than pedicel, both with strong hairs and bristles, longer on ventral side; first flagellomere compressed, with a preapical cavity on dorsum bearing a small spine in its interior; only four small hairs on dorsum of basal fifth of first flagellomere. Postocular area with scarce and weak white hairs and bristles. Beard and proximal part of proboscis with scattered white and fine hairs. Palpi błack, with black bristles.

Prothorax black, covered with silvery micropilosity, except for the anterior border, which is shining black; hairs and bristles white. Proepisternum free, with silvery micropilosity, the central line dark. Mesonotum black, mostly covered by silvery micropilosity; dorsocentral bristles black, short, but complete from the anterior border of mesonotum.

Humeral bristle absent. Supraalar, postalar and posterior callosity bristles strong, white. Scutellum black, mostly covered by silvery micropilosity, whithout marginal bristles. Postscutellum glabrous. Anatergite with dense silvery micropilosity, katatergite with long and strong white bristles. Anepisternum shining black, glabrous in central area, borders with silvery micropilosity.

Wings longer than abdomen, brownish fumose, veins darker.

Legs shining black, with black hairs and bristles; coxae mostly covered by silvery micropilosity and with white hairs.

Abdomen black, shining, hairs scattered, short, fine and whitish. Posterior margin of tergites 2-6 white, more intensely so on tergites 2 and 3. Terminalia shining black, rotated 90°, with short black hairs, except on cerci, where hairs are white. Epandrial lobes separated, as long as gonopods; hypandrium globose (Fig. 126).

Female: Similar to male, but legs brownish and tergites 2-6 mostly shining orange-red, tergites 7-8 shining black; spines on tergite 10 black.

Holotype male from Mexico, Guerrero, 24

mi. s. Iguala, 18.vii.1963 (F.D. Parker, L.A. Stange) and paratype female from Mexico, *Guerrero*, 32 mi. n. Chapulpancingo Hy., Km.

225, 19. ix. 1960 (C.H. Martin), in MZUSP. This species is dedicated to the late Prof. Dr. C.H. Martin and his wife.

Genus Neodiogmites Carrera

(Figs. 157-158, 183, 189 y 206)

Neodiogmites Carrera, 1949: 85. Type-species, Dasypogon melanogaster Wiedemann (orig. des). Lastauroides Carrera, 1949: 94. Type-species, alexanderi Carrera (orig. des.). Lastaurax Carrera, 1949: 109. Type-species, lanei Carrera (orig. des.).

The 10 species included here may be identified with the following key:

 Large and robust species (total length, 32-37 mm; wing length 22-28 mm) Medium-sized species (total length, 13-19 mm; wing length, 10-15 mm) Face, pedicel and flagellomere, thorax and legs brown. Face yellowish pollinose mystax yellow, some bristles brownish-black. Palpal hairs yellow, bristles yellow an black. Beard white. Abdomen black, with fine and soft fringe of long white hairs of tergites 1-4. Wing yellowish-brown, lighter in the interior of some cells (Brazil: Ride Janeiro to Paraná, westh to Argentina: Misiones)	. 4 e, d n o
Entirely velvety-black species Wing yellow, especially along veins, extreme apex dark brown fumose. Bear mixed black and white. Bristles and hairs of coxae pure white (Brazil: Espírit Santo)	. 3 d o n. e
4(1). Bristles of mystax entirely black	
5(4). Legs entirely black	. 6
6(5). Wing more or less uniformly microvillose. Face golden tomentose. Beard blackis in males, white in females ("albomarginatus" Carrera is a female with blackene beard, probably a variation). Thorax black, cinereous pollinose. Mesonotum wit three longitudinal black spots, the lateral two incompletely divided by transvers suture (Brazil: Rio de Janeiro, São Paulo)	h d h ee a) ee
7(5). Parted pile on tergites 2-4 pure white. (Brazil: Minas Gerais, Rio de Janeiro, Sā Paulo)	o n)
8(4). Bristles of mystax mixed yellow and black, Predominantly black species, legs red dish, tarsi reddish or blackish. (Brazil: Sāo Paulo) mixtus (Carrera Bristles of mystax entirely golden-yellow. Predominantly black and yellow specie legs yellow	l- a) s,
9(8). Flagellomere twice as long as combined length of scape and pedicel. Wing yellowish basally and anteriorly, apical 1/3 and hind margin blackish microvillose (Brazil: Espírito Santo)	
pedicel. Wing uniformly yellowish (Brazil: Rio de Janeiro)	

Neodiogmites alexanderi (Carrera), n. comb.

Lastauroides alexanderi Carrera, 1949: 95. Type-locality: Brazil, Rio de Janeiro, Angra

dos Reis (Juçaral). Type, MNR].

Carrera (1949) separated this species from hirtuosus (Wiedemann) based on the color of the abdominal hairs and the color of the legs; these presente a great variation in the extension of black areas: the femora can be entirely black in certain specimens; the males dissected always had the same terminalia. This species can be recognized by the pure white long hairs on tergites 2-4.

Material examined. BRAZIL, Minas Gerais: Serra do Caraça, 1880 m., xi. 1961 (Kloss, Lenko, Martins & Silva), 2 males; Rio de Janeiro: Angra dos Reis (Juçaral), xi. 1924 (Travassos), 1 female; do. no date (Mendes), 1 female; do., Japuíba, x. 1936 (Travassos & Lopes), 1 female; São Paulo: Santo André, i. 1942 (Spitz), 1 female; Campos do Jordão, xii. 1944, i. 1954 (Lane), 2 males; Salesópolis, Estação Biológica de Boracéia, i. 1948 (Travassos F° & Braz), 1 male; do., ii. 1955 (Werner), 1 male; Cássia dos Coqueiros, Cajuru, x. 1954 (Barretto), 1 female; Ribeirão Preto (Rio Tamanduá), x. 1953 (Barretto), 1 male, 2 females, All in MZUSP.

Neodiogmites atriapex (Carrera & Papavero), n. comb.

Lastauroides atriapex Carrera & Papavero, 1962: 52. Type-locality: Brazil, São Paulo, Araçatuba (Rio Jacaretinga). Type, MZUSP.

Neodiogmites carrerai, sp. n.

Male. Total length, 36 mm; wing length 22 mm.

Face and from black, spots on each side of oral border, antennal sockets and ocelli white, contrasting strongly with ground color. Frontal hairs and bristles black, weak as compared to the strong bristles on postocular area. Face flat, mystax reduced to 2-3 rows of strong, long, black bristles directed forward. Antenae black, pedicel and first flagellomere with scarce golden pollinosity, scape shorter than pedicel and with short dorsal hairs. First flagellomere compressed, attenuate ventrally towards apex, with a preapical cavity directed

downwards bearing a short spine on middle; flagellomere with two divergent rows of short black hairs on dorsum, and, on basal half of external side, a diagonal row of short black hairs. Hairs of palpi, proboscis and beard black, with a few white hairs intermingled, mostly on palpi and beard.

Pronotum black, mostly velvety, with black hairs and bristles. The free proepisternum brownish, with a lighter line on center and borders. Mesonotum black, anterior margin, humeri, lateral margins and dorsocentral stripes velvety, remaining areas dull black. Dorsocentral bristles weak, presuturally hair-like. Supraalar and postalar bristles strong, long. Disc of scutellum bare, two strong marginals present. Pleura black, with dull and velvety areas intermingled. Anepisternum hairs and bristles black. Anatergite bare, velvety, black.

Wing slightly longer than abdomen, uniformly brownish, veins darker.

Legs black, with black hairs, bristles and fore tibial spur, except for the coxae, where there are some white hairs, more abundant on the fore coxae. Claws acute, pulvilli yellow, reaching tip of claws.

Abdomen black, mostly dull, hairs and bristles black, except on posterior margin of tergites 2-5 where there are white hairs, more abundant on tergites 3 and 4. Terminalia black, rotated 90°, with long black hairs on gonocoxites and hypandrium, which are organized like a basket closing the posterior end. Epandrial lobes separated, shorter than gonocoxites, with a deep emargination on distal border. Hypandrium subpentagonal.

Holotype-male and paratype male from BRAZIL, *Espírito Santo*: Santa Teresa, iii. 1971 (P.C. Elias), in the MZUSP.

This species is dedicated to Dr. Messias Carrera, as an homage to his many contributions to the knowledge of the Neotropical robber-flies.

Neodiogmites hirtuosus (Wiedemann), n. comb.

Dasypogon hirtuosus Wiedemann, 1821: 227. Type-locality: "Brazil". Type? Lastauroides hirtuosus; Carrera, 1949: 97.

The color of the legs in this species is also variable, males sometimes showing a comple-

tely black femur. This species may be recognized by the color of the tergites' hairs (intensely yellow).

Material examined. Brazil, *Rio de Janeiro*: Itatiaia, 1.200 m., ii. 1934 (Shannon), 1 male; Petrópolis, no date (Spanhauer), 1 female; *São Paulo*: Salesópolis, Estação Biológica de Boracéia, iii. 1968 (Oliveira Santos), 1 female; do., ii. 1949 (Carrera), 1 male, 1 female; do., ii. 1968 (Travassos F°), 1 female (teneral); Campos do Jordão (Fazenda Guarda-Serrote), 1.510 m., iii. 1963 (Rabello, Guimarães & Barroso), 1 male (with *Fidena*, Tabanidae, as prey). All in MZUSP.

Neodiogmites lanei (Carrera), n. comb.

Lastaurax lanei Carrera, 1949: 110. Typelocality: Brazil, Rio de Janeiro, Tinguá. Type, MZUSP.

Neodiogmites melanogaster (Wiedemann)

Dasypogon melanogaster Wiedemann, 1821: 215. Type-locality: "Brazil". Syntypes, WIEN.

Dasypogon grandis Macquart, 1846: 63. Typelocality: "Brazil". Type lost.

Dasypogon rapax Walker, 1851: 88. Typelocality: "South America". Type, BMNH.

Neodiogmites mixtus (Carrera), n. comb.

Lastauroides mixtus Carrera, 1949: 101. Typelocality: Brazil, São Paulo, Campos do Jordão. Type, MZUSP.

Lastauroides modestus Carrera, 1949: 103. Type-locality: Brazil, São Paulo, Campos de Jordão. Type, MZUSP. n. syn.

Carrera described *modestus* on the base of the blackish color of the tarsi and apex of tibiae; as seen with the other species treated before, the color of the legs is variable, and we have decided to synonymize it with *mixtus*.

In addition to the specimens studied by Carrera (1949) we have seen 3 females from Campos do Jordão (São Paulo), ii. 1958 (Lenko), in the MZUSP.

Neodiogmites niger (Carrera), n. comb.

Lastauroides niger Carrera, 1949: 99. Typelocality: Brazil, Rio de Janeiro, Rio de Janeiro. Type, MZUSP. Lastauroides albomarginatus Carrera, 1949: 98. Type-locality: Brazil, São Paulo, Paranapiacaba (as Alto da Serra). Type, MZUSP.

Carrera described *albomarginatus* based on a single female with blackish beard, most certainly a variation; we synonymize it with *niger*, selecting the latter name as valid, as first revisors.

Material examined. BRAZIL, *São Paulo*: Campos do Jordão, (Eugênio Lefevre), 1.200 m, ii.1963 (Guimarães, Morgante, Rocha, Barroso & Travassos F°), 1 female; Salesópolis, Estação Biológica de Boracéia, 850 m, i.1960 (Guimarães), 1 female; do., ii.1968 (Oliveira Santos), 2 females; do., i.1964 (Rabello), 1 female; do., ii.1963 (Silva & Reichardt), 1 male. All in MZUSP.

Neodiogmites tauauna, sp. n.

Female. Body length, 17 mm; wing length, 12 mm.

Face densely golden tomentose. Mystax in 2-3 irregular rows, limited to oral margin, golden. Frons less densely golden tomentose, with groups of small, black bristles laterally. Ocellar tubercle black in ground color, yellow tomentose, with black bristles. Occiput densely golden pollinose, with golden bristles and hairs. Beard golden yellow. Palpi dark yellow, with golden bristles. Proboscis black, light brown basally and ventrally, with long, fine, yellow hairs. Antennae brownish, flagellomere twice as long as comined length of scape and pedicel, darker apically, with black dorsal hairs.

Thorax black, golden-yellow pollinose; mesonotum with three longitudinal spots separated by golden pollen; the lateral spots divided at transverse suture by golden pollen. Humeral bristles developed, black. Dorsocentrals beginning at level of posterior margin of humeri, longer near scutellum, black. Pilosity of mesonotum mixed black and yellow. Pleura black, sparsely golden-yellow pollinose, hairs and bristles yellow.

Wing yellowish basally and posteriorly; apical 1/3 and hind margin of wing dark (blackish) microvillose. Halteres reddishyellow.

Legs yellowish; apical segment of tarsi blackish. Pilosity short, moderately dense, black; bristles black. Pulvilli yellowish-brown, claws black.

Abdomen black, subshining; very narrow posterior rim of tergites 2-6 reddish-brown; tergite 7 with larger posterior rim, 8 and terminalia entirely reddish-brown. First tergite with long, stiff, yellow bristles laterally. First tergite posteriorly, tergites 2-4 lateroposteriorly and posteriorly, sparsely yellow pollinose, with not very long and dense golden hairs. The short and semi-erect pilosity of the tergites black. Venter of abdomen black, grey pollinose, pilosity short, semi-erect, black.

Holotype female, BRAZIL, *Espirito Santo*: Itapina, xi.1970 (Elias), in the MZUSP.

The specific names comes from the Guarani $tau\acute{a} = yellow$ and una = black.

Genus Saropogon Loew (Figs. 144-150)

Dasypogon, subg. Saropogon Loew 1847: 439. Type-species, luctuosus Wiedemann (Coquillett 1910: 603).

Araiopogon Carrera 1949: 122. Type-species,
 Dasypogon gayi Macquart (Orig. des.). n. syn.
 Oberon Carrera & Papavero 1962: 57. Type-species,
 velutinus Carrera & Papavero (orig. des.) n. syn.

This genus included now in South America the following species: choapensis (Artigas, 1971), fraternus (Bigot, 1878), fulvicornis (Macquart, 1850), gayi (Macquart, 1838; = chalybeiventris (Loew, 1851); = hyacinthinum Bigot, 1878), melisoma (Carrera & Papavero, 1962), mellipes Bromley, 1934, nigronasutus Bigot, 1878, perniger Schiner, 1868, and velutinus (Carrera & Papavero, 1962), n. comb.

REFERENCES

Artigas, J.N. 1970. Los asílidos de Chile (Diptera-Asilidae). *Gayana (Zool.)* 17: 1-472.

1971. Las estructuras quitinizadas de la spermatheca y funda del pene de los asílidos y su valor sistemático a través del estudio por taxonomía numérica (Diptera-Asilidae). *1bid.* 18: 1-105.

BIGOT, J.M.F. 1878. Diptères nouveaux ou peu connus. 10e. partie. XV. Tribu des Asilidi. Curies des Laphridae et Dasypogonidae. *Ann. Soc. ent. Fr.* (5) 8: 213-240, 401-446.

- Bromley, S.W. 1934. Asilidae, pp. 327-360, *in* C.H. Curran, *q. v.*
- Carrera, M. 1947. Asilídeos coligidos no Paraguai pela Missão Científica Brasileira (Diptera). *Papéis avulsos Zool.* 8(7): 203-208.

1949. Contribuição ao conhecimento dos Asilidae neotropicais (Diptera). 1. Sôbre as espécies brasileiras com esporão na tíbia. *Arqos Zool.* 7: 1-148.

1953. As espécies neotropicais do gênero *Diog-mites* (Asilidae) Ibid. 8: 169-208.

1955a. Novos gêneros e novas espécies de Dasypogoninae neotropicais (Diptera, Asilidae). *Papéis avulsos Zool.* 12(2): 99-118.

1955b. Asilídeos da Argentina (Diptera). 11. Aczelia, novo gênero para Laparus argentinus Wulp, 1882. Ibid. 12(14): 297-302.

1960. Asilidae (Diptera) da coleção Seabra. *Arqus. Zool. 11*(17): 147-170.

- Carrera, M. & C.E. Machado-Allison. 1968. Sobre el género *Lastaurus* Loew, 1851 (Dipt., Asilidae). *Bol. Soc. venez. Ci. nat. 110* (tomo 26) (1966): 484-503.
- CARRERA, M. & N. PAPAVERO, 1962. Saropogonini neotropicais (Diptera, Asilidae, Dasypogoninae), *Studia ent. 5:* 39-64.
- Cole, E.I. 1924. Notes on the dipterous family Asilidae, with descriptions of new species. *Pan-Pacific Ent. 1:* 7-13.
- COQUILLETT, D.W. 1910. The type-species of North American genera of Diptera. *Proc. U.S.* nat. Mus. 37 (N° 1719): 499-647.
- CURRAN, C.H. 1923. Studies in Canadian Diptera. 1. Revision of the asilid genus *Cyrtopogon* and allied genera. *Can Ent.* 55: 92-95, 116-125, 132-142, 169-174, 185-190.

1934a. The families and genera of North American Diptera, 512 pp. New York.

1934b. The Diptera of Kartabo, Bartica District, British Guiana, with descriptions of new species from other British Guiana localities. *Bull. Am. Mus. nat. Hist, 66:* 287-523.

1935. New American Asilidae (Diptera). IV. Am. Mus. Novit. 806: 1-12.

- Enderlein, G. 1914. Dipterologische Studien. XI. Zur Kenntnis tropischer Asiliden. Zool. Anz. 44(6): 241-263.
- ENGEL, E.O. 1930. Die Ausbeute der deutschen Chaco-Expedition 1925/1926. Asilidae (Diptera). Konowia 8 (1929): 457-474.
- HARDY, G.H. 1948. On classifying Asilidae. Ent. monthly Mag. 84: 116-119.
- HERMANN, F. 1912. Beiträge zur Kenntnis der südamerikanischen Dipteren Fauna auf Chile, Peru, und Bolivia, ausgeführt von W. Schnuse. Familie Asilidae. *Nova Acta Acad. caes. -leop.- carol. 96:* 1-275.

- Hull, F.M. 1962. Robber flies of the world. The genera of the family Asilidae. *Smithson. Inst. Bull.* 224(1): 1-432.
- JAENNICKE, J.F. 1867. Neue exotische Dipteren. Abh. senckenb. naturf. Ges. 6: 311-405. (Also published separately, as "Neue exotische Dipteren aus den Museen zu Frankfurt a. M. und Darmstadt", 100 pp. Frankfurt, 1868).

JAMES, M.T. 1933. New Asilidae from Colorado. Am. Mus. Novit. 596: 1-3.

LOEW, H. 1847. Ueber die europäischen Raubfliegen (Diptera - Asilica). Linnaea ent. 2: 384-568, 587-591.

1851. Bemerkungen über die Familie Asiliden. Programm Realschile zu Meseritz 1851: 1-22.

1866. Diptera Americae septenttionalis indigena. Centuria septima. *Berl. ent. Ztschr. 16*: 49-115. (Also separately published, *1872*, pp. 61-114).

1872. Idem. Centuria decima. *Ibid. 16*: 49-115. (Also separately published, *1872*, pp. 225-291).

ŁANGII ARRIBÁI ZAGA, E. 1881, Asilides argentinos. An. Soc. cient. argent. 11: 17-32, 112-128.

MACQUART, J. 1834. Histoire naturelle des insectes diptères 1: 578 pp. Paris. (In N.E. Roret, Coffection des Suites à Buffon).

1838. Diptères exotiques nouveaux ou peu connus 1(2): 5-207. Paris. (Also published in Mém. Soc. r. Sci. Agr. Arts Lille 1838(3): 121-323, 1839).

18-16. Idem./Ier/Supplément. Mém. Soc. r. Sci. Agr. Arts Lille (1845) 1844: 133-364. (Also separately published, pp. 5-283, Paris, 1846).

1850. Idem. 4e. Supplément (part). *Ibid.* 1849: 309-465 (text). 466-479 (expl. of. figs., index). (Also separately published, pp. 5-161 (text), Paris, 1850; pages 311-317 (expl. of figs), 324-336 (combined index of the parts of this supplement), and pla. 1-14 were issued with the second part of this supplement, Paris, 1851).

OSTEN SACKEN, C.R. 1887. Diptera, pp. 129-160, 161-176, 177-208, 209-216, pl. 3, in F.D. Godman & O. Salvin, eds., Biologia Centrali-Americana, Zoologia-Insecta-Diptera 1: 378 pp., 6 pls. London.

Papavero, N. 1971. Notes on some types of neotropical Asilidae (Diptera), with descriptions of three new species. *Papéis avulsos Zool.* 25(3): 19-29, 6 figs.

1973. Studies of Asilidae (Diptera) systematics and evolution. II. The tribes of Dasypogoninae. *Arqus Zool.* 23(4): 275-294.

Phillippi, R.A. 1865. Aufzählung der chilenischen Dipteren. Verh. zool.-bot. Ges. Wien 15: 595-782. Priichard, A.E. 1935. New Asilidae from the soutwestern United States (Diptera). Am. Mus. Novit. 813: 1-13.

1941. Annamyia, a new genus of Asilidae, with a revision of the genus Aphamartania Schiner (Diptera). Proc. ent. Soc. Wash. 43(6): 131-140.

RONDANI, C. 1848. Esame di varie specie d'insetti ditteri brasiliani. *Studi ent. 1:* 63-112.

1850. Dipterorum species aliqua in America Aequatoriali collectae a Cajetano Osculati, observatae et distinctae novis breviter descriptis. *Nuov. Ann. Sci. nat. Bologna* (3) 2: 357-372.

1868. Diptera aliqua in America Meridionali lecta a Prof. A. Strobel, anno 1866 et 1867. Ann. Soc. Nat. Modena 3: 24-40.

SCHINER, J.R. 1866. Die Wiedemann'sche Asiliden, interpretiert und in die seither errichteten neuen Gattungen eingereiht. Verh. zool.-bot. Ges. Wien 16 (Anhandl.): 649-722, 845-848.

1867. Neue oder wenige bekannte Asiliden des K. zoologisches Hofkabinetes in Wien. Ein Beitrag zur Kenntnis der Asiliden. *Ibid. 17:* 355-412.

1868. Diptera, pp. 1-388, in (Wüllerstorf-Urbair) Reise der österreichischen Fregate Novara um die Erde, Zoologie 2(1,B). Wien.

Thomson, C.G. 1869. 2. Diptera. Species novas descripsit..., pp. 443-614, pl. 9 (=h. 12, n° 2), in K. Vetenskaps-Akademien, Konglika Svenska Fregatten Eugenies Resa omkring Jorden, 2 (Zoologie)/Sec./1 (Insekter): 617 pp., 9 pls. Stockholm, "1868".

WALKER, F. 1851. Diptera, in/W.W. Saunders, ed./, Insecta Saundersiana, or Characters of undescribed insects in the collection of William Wilson Saunders, Esq. 1: 76-156, 2 pls. London, "1856".

WIEDEMANN, C.R.W. 1821. Diptera exotica, 244 pp., Kiel.

1828. Aussereuropäische zweiflügelige Insekten 1: xxxii+ 608 pp. Hamm.

WILCOX, J. 1967. New species and a key to the species of *Parataracticus* Cole (Diptera: Asilidae). *J. Kans. ent. Soc.* 40(1): 13-16, fig.

WILLISTON, S.W. 1883. On the North American Asilidae (Dasypogoninae, Laphrinae), with a new genus of Syrphidae. Trans. Am. ent. Soc. & Proc. Acad. nat. Sci. Philad. (Ent. Sect.) (1884) 11: 1-35.

1891. Catalogue of the described species of South American Asilidae. *Trans. Am. ent. Soc. 18*: 67-91.

WULP, F.M. VAN DER 1882. Amerikaansche Diptera. Tijdschr. Ent. 25: 77-163.

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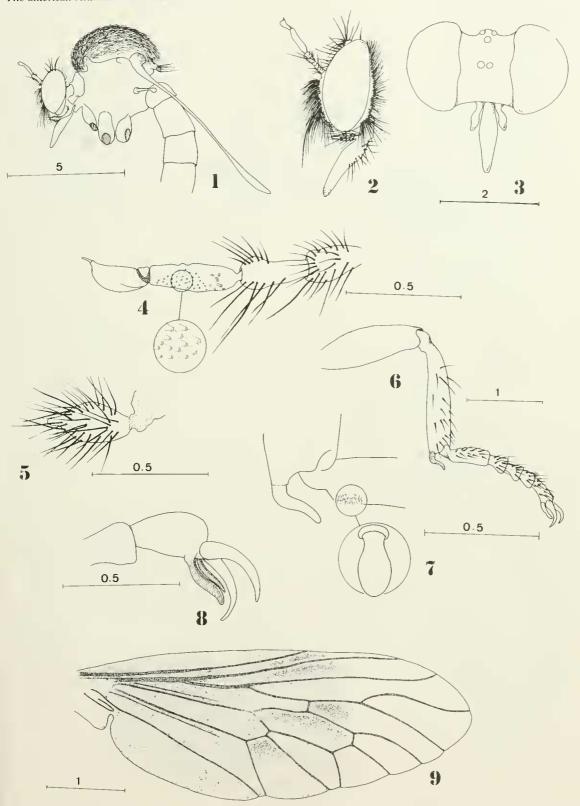
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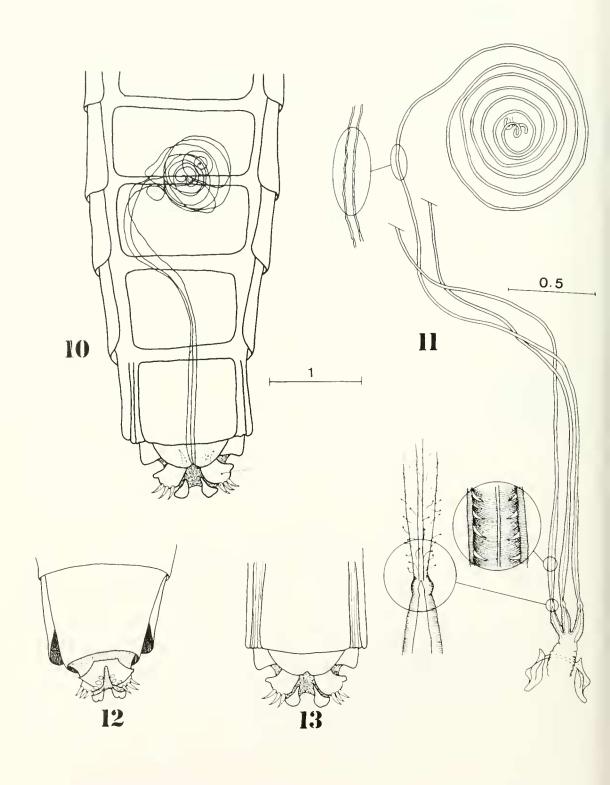
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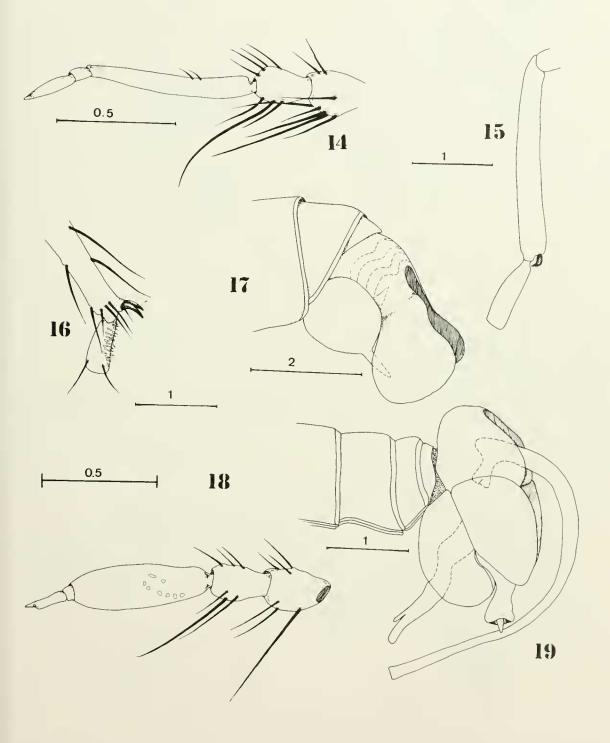
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Figs. 1-9. Alvarenga icarius Carrera: 1, lateral view of thorax; 2, head, lateral; 3, do., frontal; 4, antenna; 5, palpus; 6, front leg; 7, detail of fore tibial spur; 8, apical tarsomere and pulvilli; 9, wing.

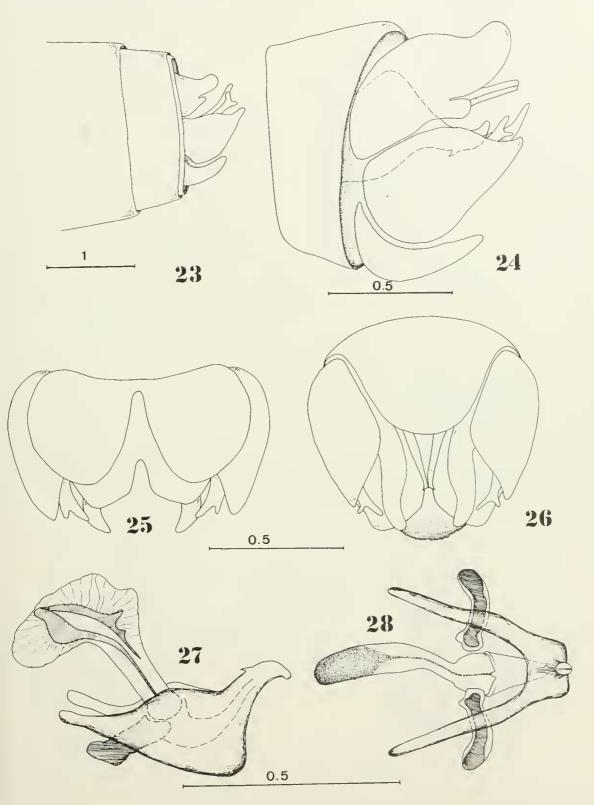


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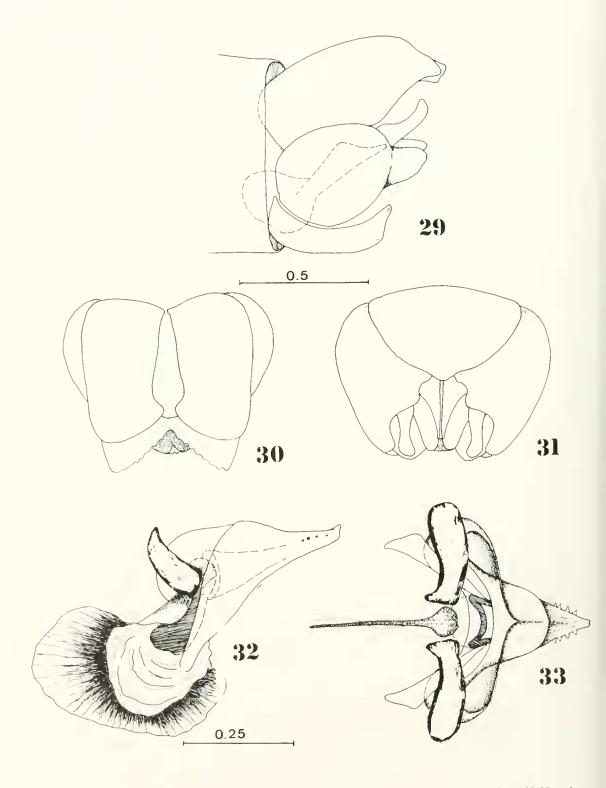


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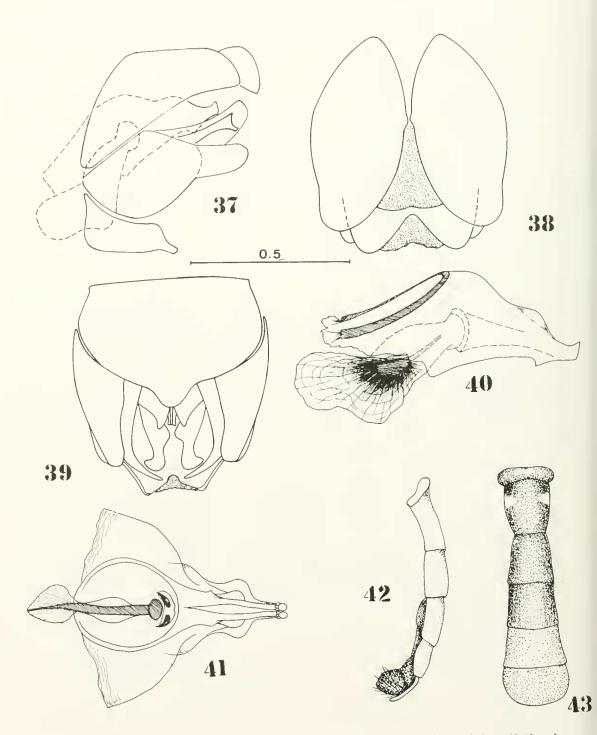


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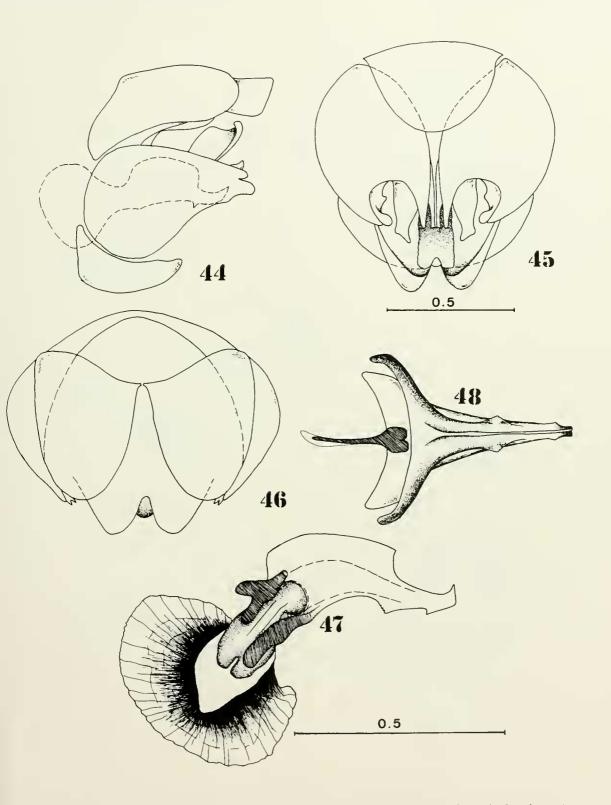


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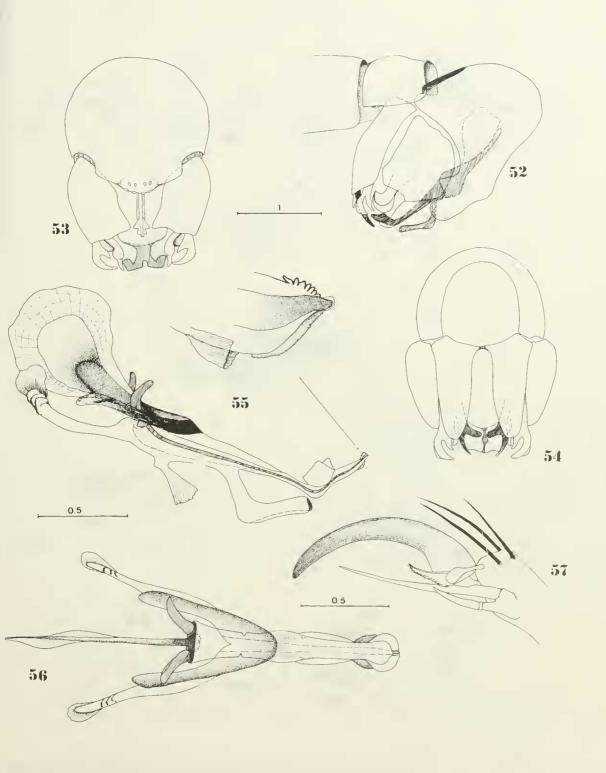


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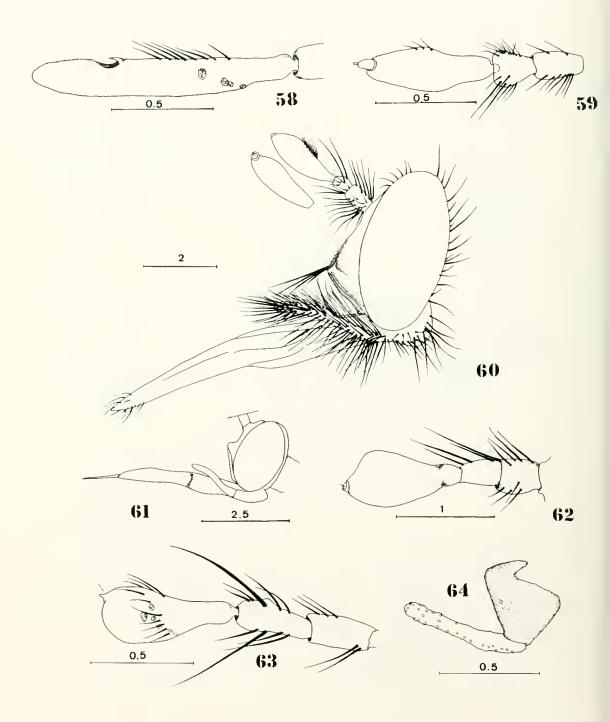


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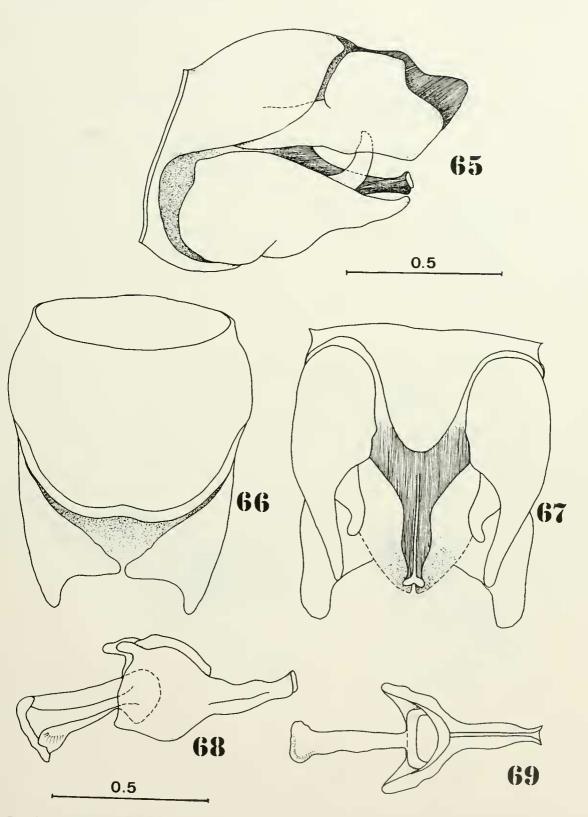
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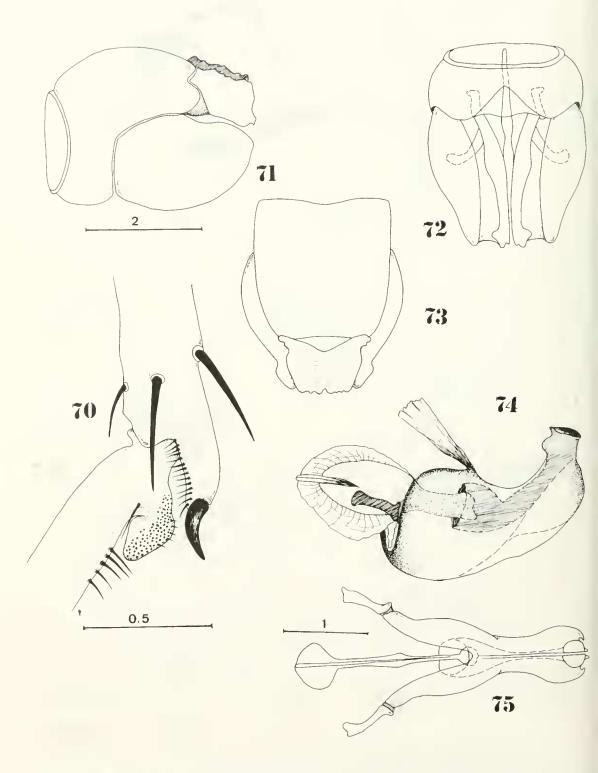
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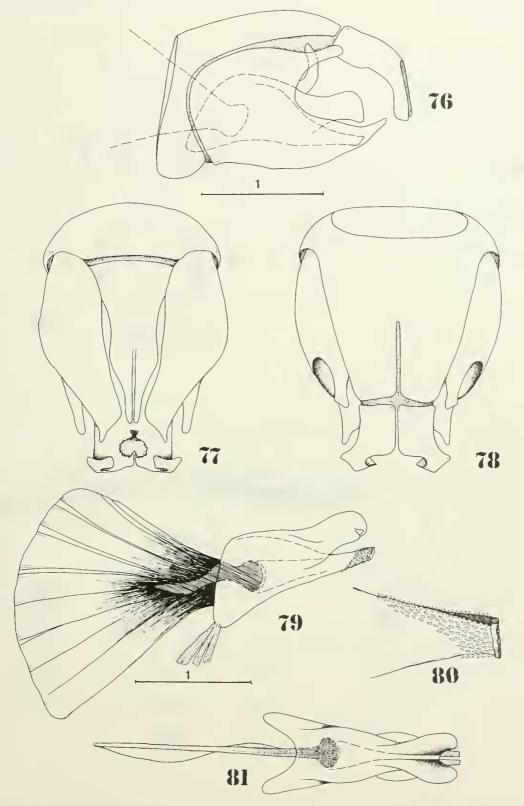
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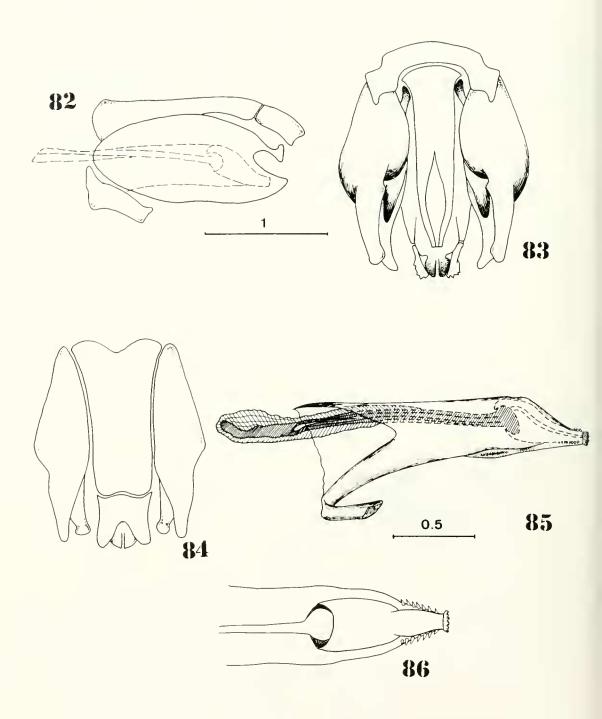
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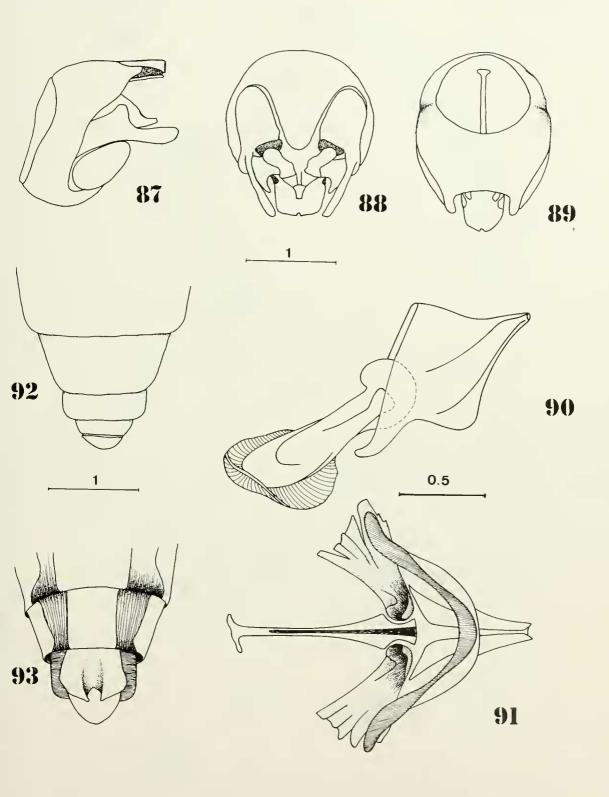
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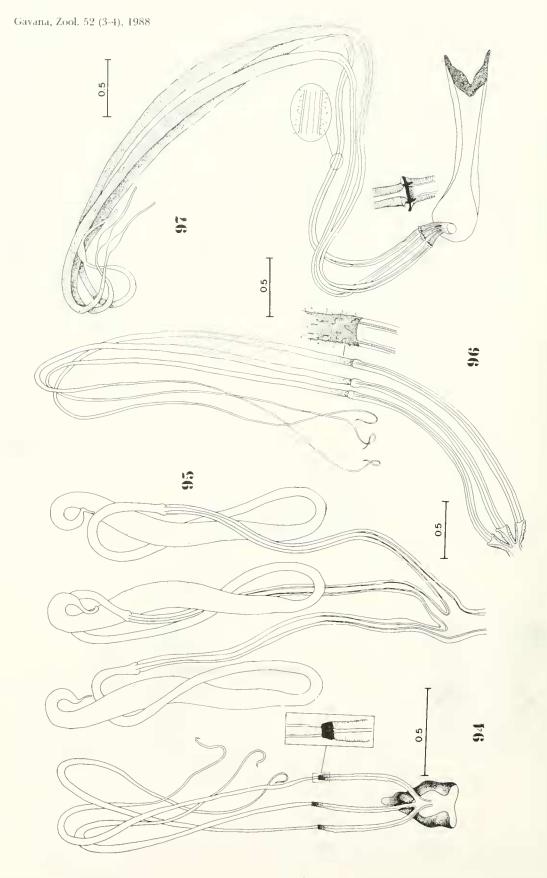
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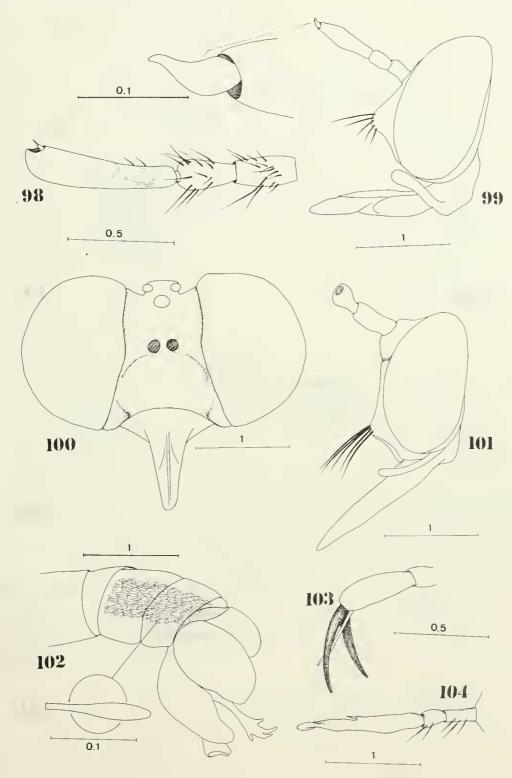


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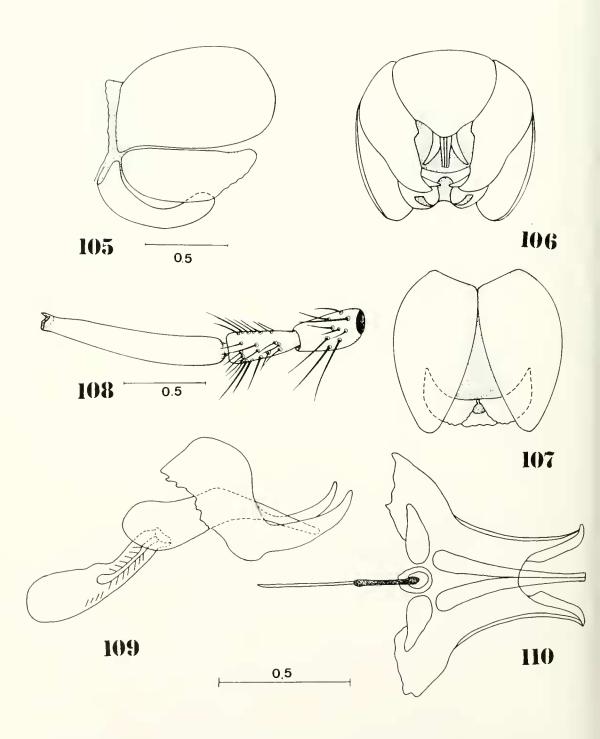


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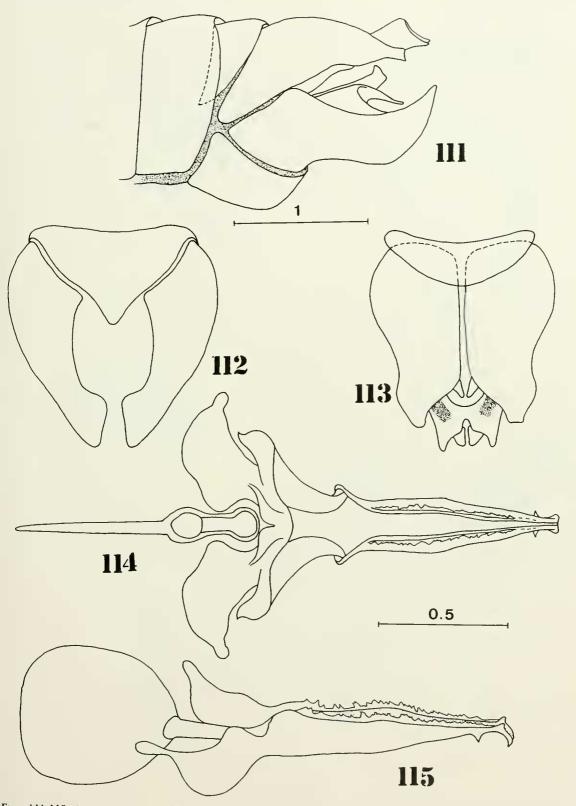




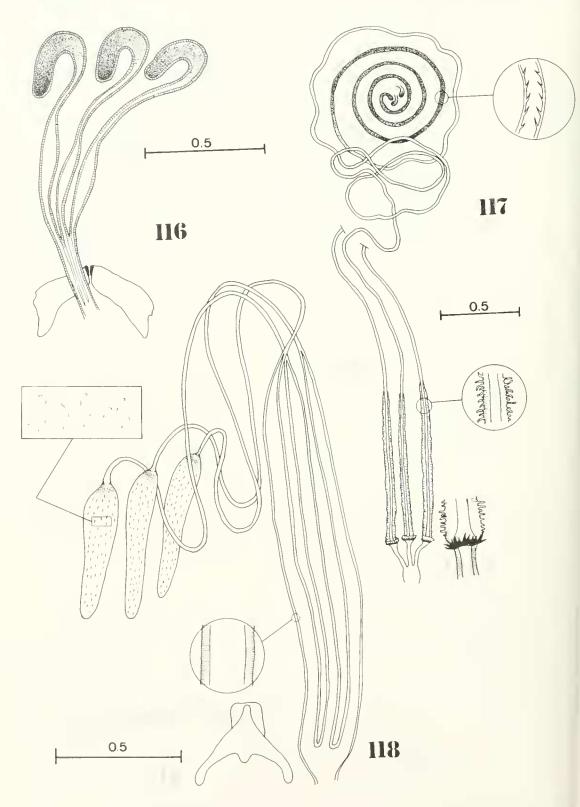
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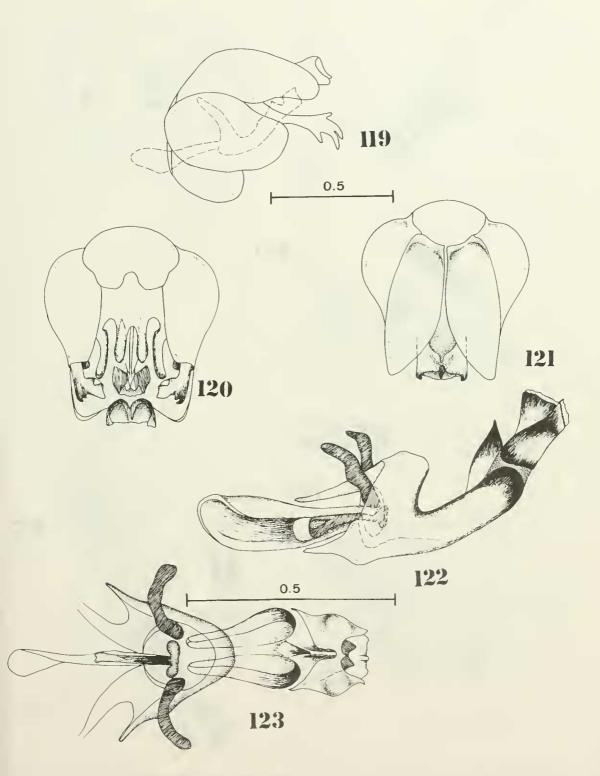
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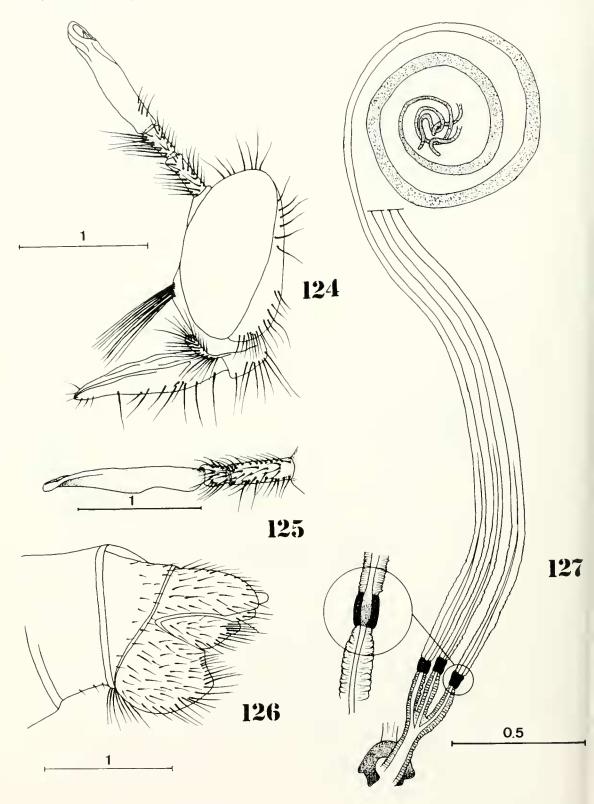
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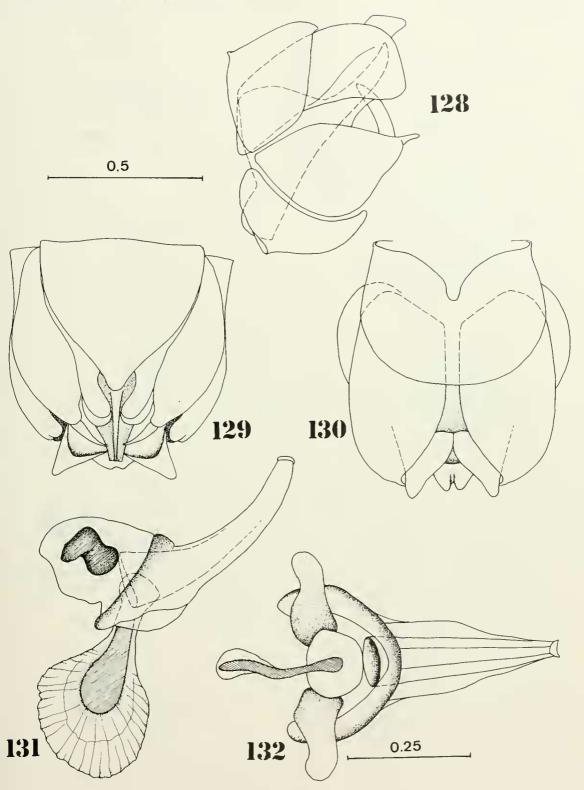
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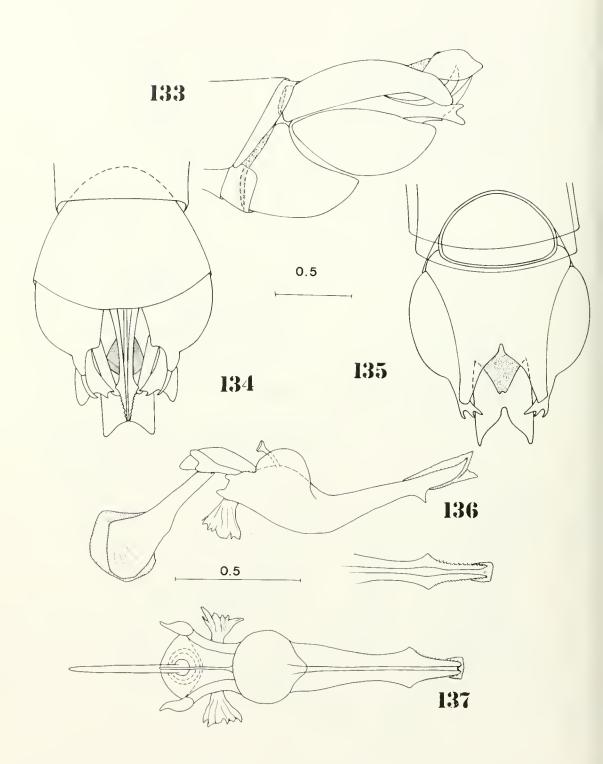
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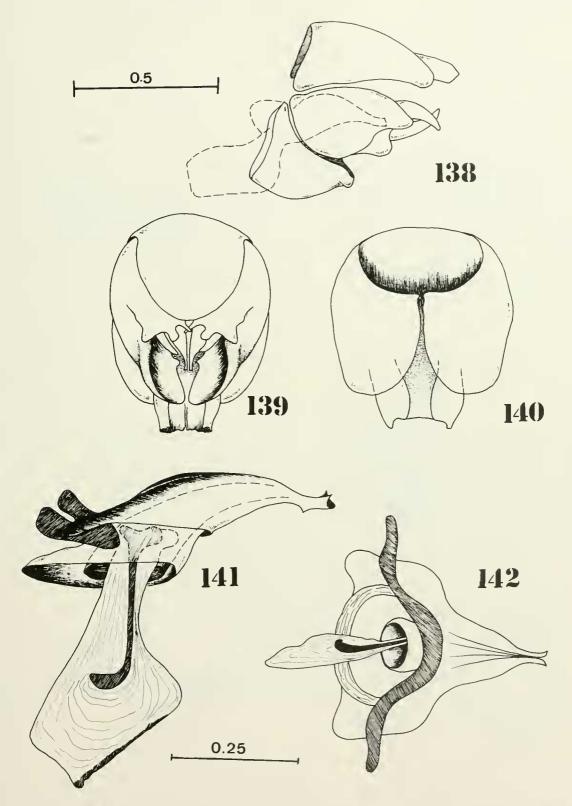
Figs. 124-127. Macrocolus bicolor Engel: 124, head, lateral; 125, antenna; 127, spermathecae. M. martinorum sp. n.: 126, male terminalia, lateral.



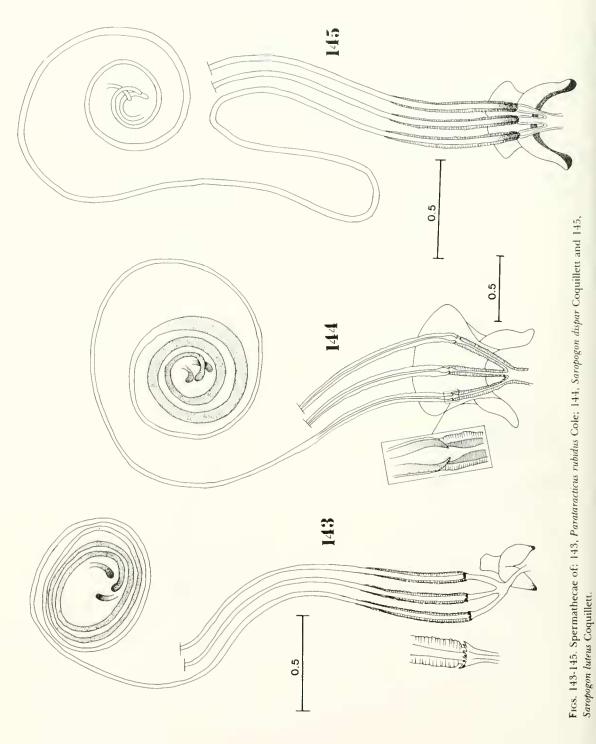
Figs. 128-132. Macrocolus bicolor Engel: 128-130, male terminalia, lateral, ventral and dorsal views; 131-132, aedeagus in lateral and dorsal views.



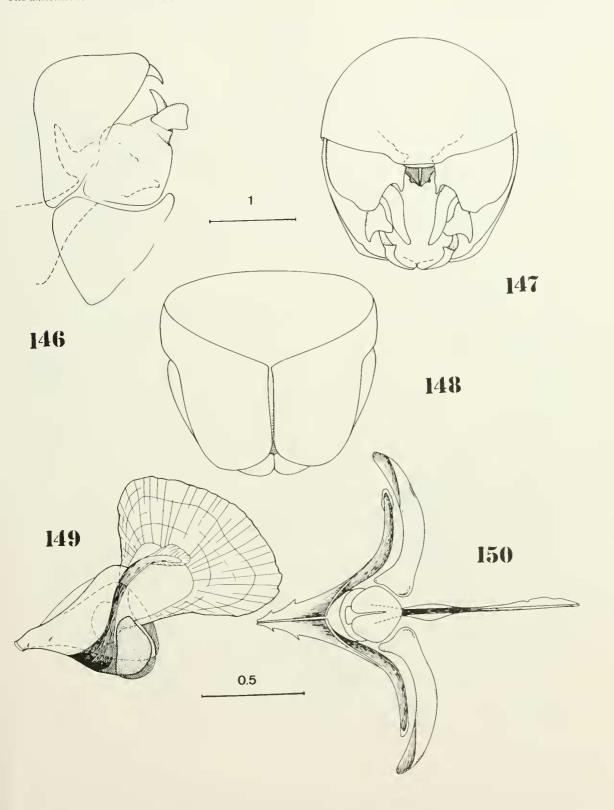
Figs. 133-137. Neoderomyia fulvipes (Philippi): 133-135, male terminalia, lateral, ventral and dorsal views; 136-137, aedeagus in lateral and dorsal views.



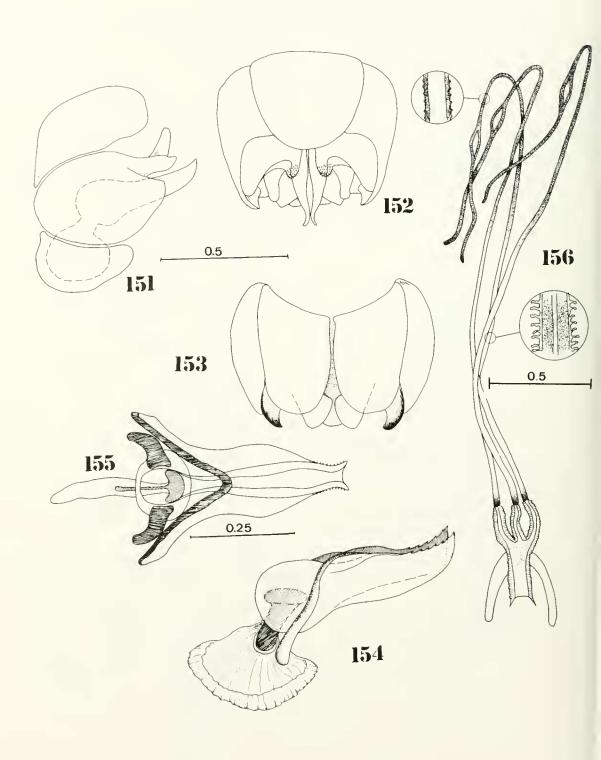
Fios. 138-142. Parataracticus rubidus Cole: 138-140, male terminalia, lateral, ventral and dorsal views; 141-142, aedeagus in lateral and dorsal views.



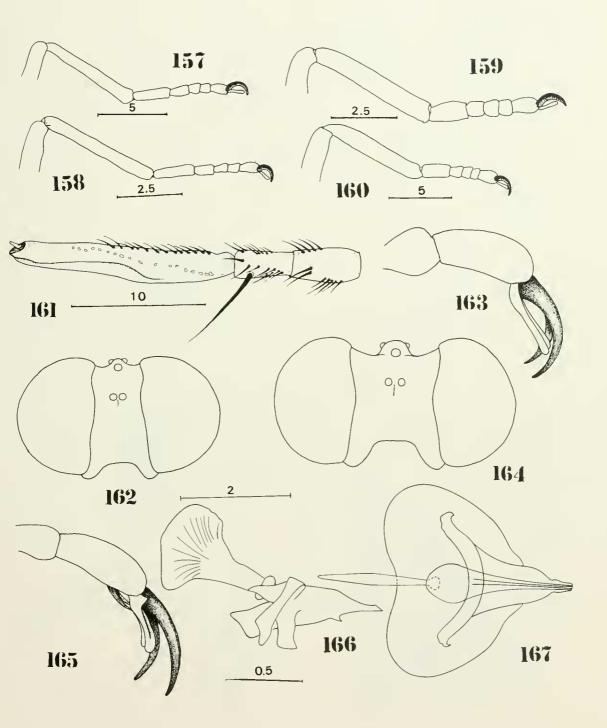
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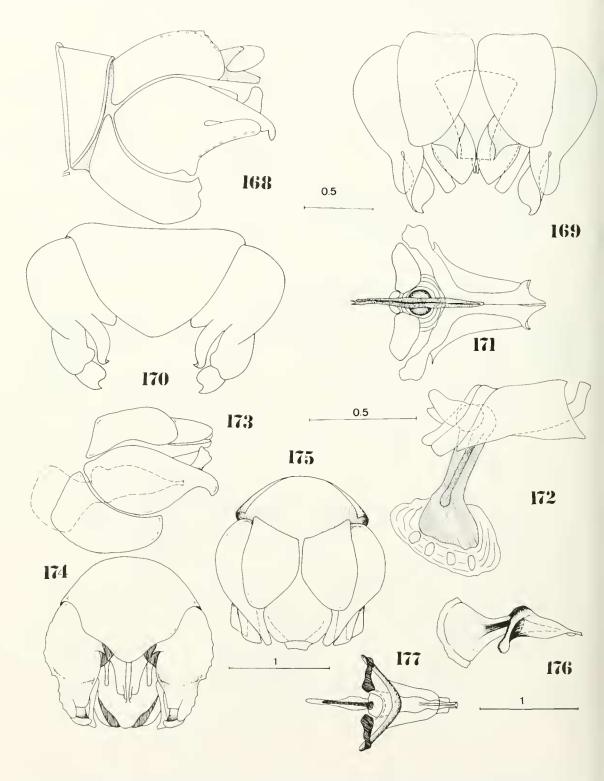
Figs. 146-150. Saropogon dispar Coquillett: 146-148, male terminalia, lateral, ventral and dorsal views. 149-150, aedeagus in lateral and dorsal views.



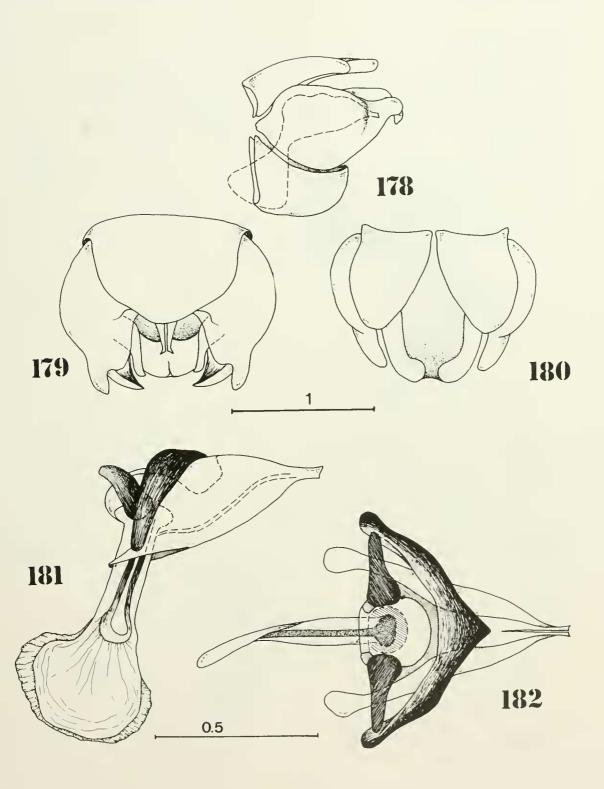
Figs. 151-156. Taracticus octopunctatus (Say): 151-153, male terminalia, lateral, ventral and dorsal views; 154-155, aedeagus in lateral and dorsal views; 156, spermathecae.



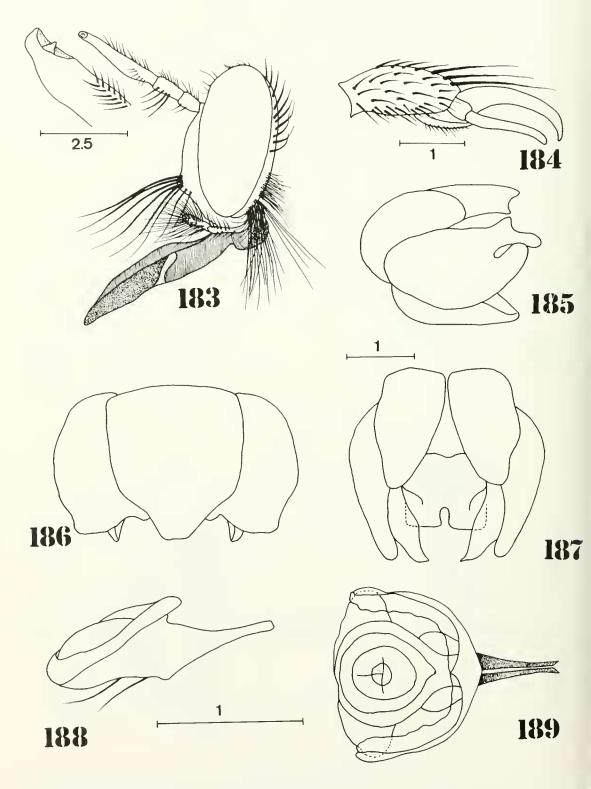
Figs. 157-167. Hind leg of: 157, Neodiogmites hirtuosus (Wiedemann); 158, Neodiogmites mixtus Carrera; 159, Lastaurina travassosi (Carrera) and 160, Lastaurus lugubris (Macquart). Fig. 161, antenna of Lastaurus robustus Carrera; 162-163, head and hind basal tarsomere of Diogmites vulgaris Carrera; 164-165, do., Allopogon tesellatus (Wiedemann). Aedeagus of Allopogon vittatus(Wiedemann): lateral (166) and dorsal (167) views.



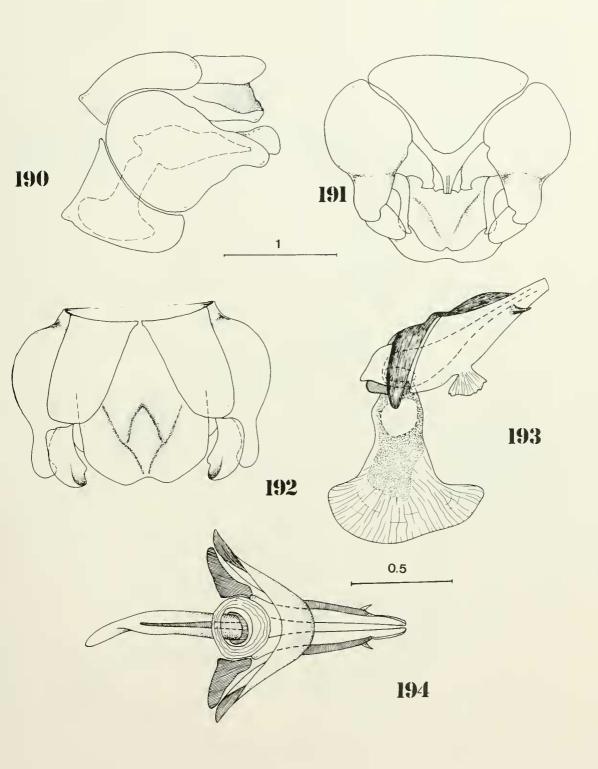
Fios. 168-177. Blepharepium fuscipennis (Macquart): 168-170, male terminalia, lateral, ventral and dorsal views; 171-172, aedeagus in dorsal and lateral views. Diognites ferrugineus (Lynch Arribálzaga): 173-175, male terminalia, lateral, ventral and dorsal views; 176-177, aedeagus in lateral and dorsal views.



Figs. 178-182. Lastaurina ardens (Wiedemann): 178-180, male terminalia, lateral, ventral and dorsal views; 181-182, aedeagus, lateral and dorsal views.



Figs. 183-189. Neodiogmites carrerai sp. n.: 183, head; 184, tarsomere; 185-187, male terminalia, lateral, dorsal and ventral views; 188-189, aedeagus in lateral and dorsal views.



Figs. 190-194. Lastaurus fallax (Macquart): 190-192, male terminalia, lateral, ventral and dorsal views; 193-194, aedeagus in lateral and dorsal views.

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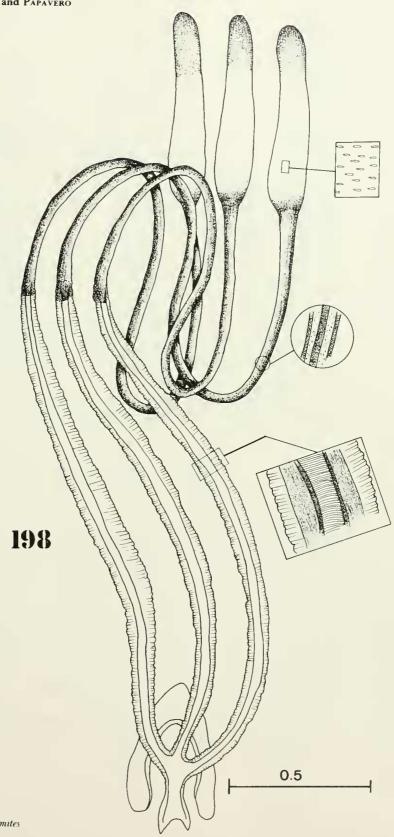
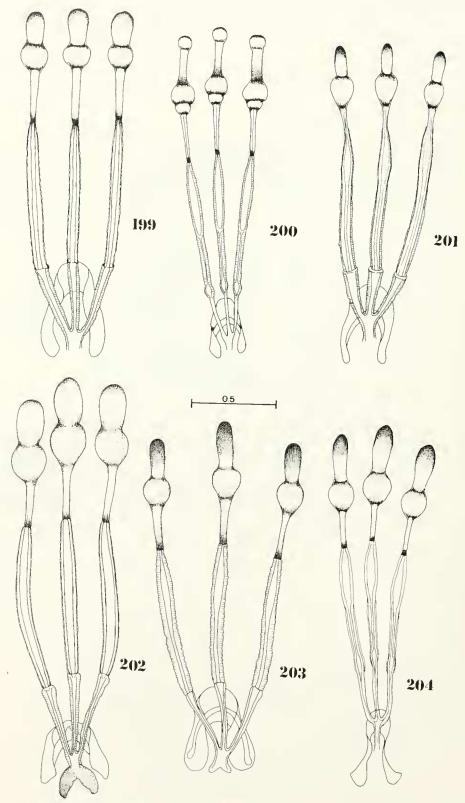
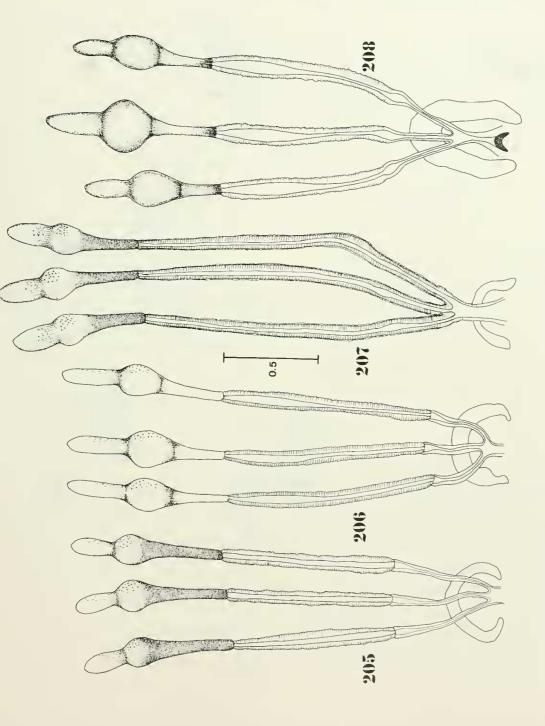


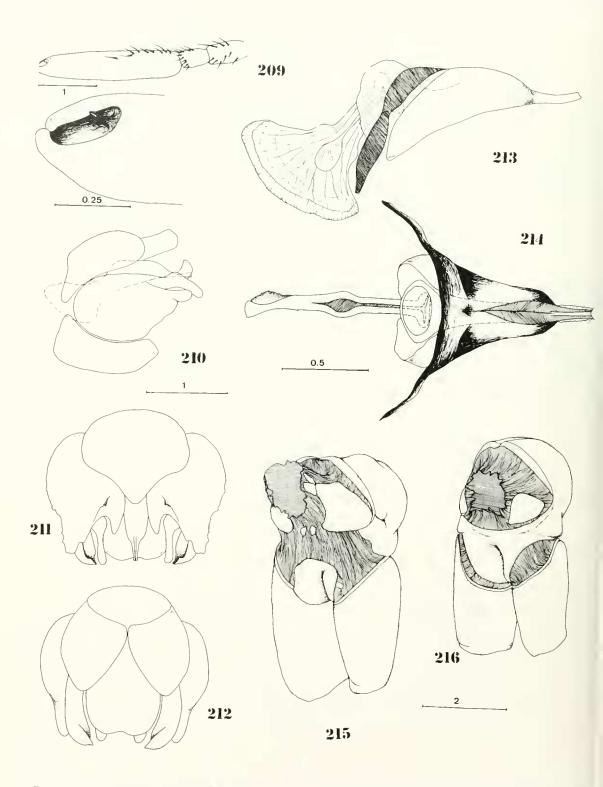
Fig. 198. Spermathecae of *Diognites* ferrugineus (Lynch Arribálzaga).



Figs. 199-204. Spermathecae of: 199, Diognites: D. coffeatus (Wiedemann); 200, D. jubatus (auctt); 201, D. discolor Loew; 202, D. symmachus Loew; 203, D. basalis (Walker) and 204, D. winthem (Wiedemann).



Fies. 205-208. Spermathecae of: 205, Lastaurina ardens (Wiedemann); 206, Neodiogmites alexanden Carrera; 207, Lastaurus lugubris (Macquart) and 208, Phonicocleptes busiris Lynch Arribálzaga.



Figs. 209-216. Phonicocleptes longipes (Macquart): 209, antenna, detail. P. busiris Lynch Arribálzaga: 210-212, male terminalia, lateral, ventral and dorsal views; 213-214, aedeagus in lateral and dorsal views. Prosternum: 215, Phonicocleptes longipes (Macquart); 216, Blepharepium cajennense (Fabricius).